BID FORM

MISSOURI DEPARTMENT OF TRANSPORTATION

GENERAL SERVICES 830 MoDOT DRIVE - P.O. BOX 270 **JEFFERSON CITY, MO 65101**

REQUEST NO	Э.	2-061109A	
DATE		October 26, 2006	5
PAGE NO.	1	NO. OF PAGES	76

SEALED BIDS. SUBJECT TO THE ATTACHED CONDITIONS WILL BIDS TO BE BASED F.O.B. MISSOURI DEPARTMENT OF BE RECEIVED AT THIS OFFICE UNTIL

TRANSPORTATION

2:00 p.m., Local Time, November 9, 2006

Submit net bid as cash discount stipulations will not be considered F.O.B. Destinations As Listed

AND THEN PUBLICLY OPENED AND READ FOR FURNISHING THE FOLLOWING SUPPLIES OR SERVICES.

DEFINITE DELIVERY DATE SHOULD BE SHOWN. SIGN AND RETURN BEFORE TIME SET FOR OPENING. ALL BIDS SHOULD BE EXTENDED AND TOTALED.

BUYER:

Brenda Tyree

BUYER TELEPHONE:

573-751-7482

BUYER EMAIL:

Brenda.Tyree@modot.mo.gov

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ITEM NO.	SUPPLIES OR SERVICES	MFG. NO. OR BRAND	QUANTITY	UNIT	UNIT PRICE	AMOUNT
		OK BRAND	ļ	<u> </u>	PRICE	
1	NEMA TS1 Traffic Signal Controller Assemblies		,	-		
	District 1 St. Joseph		2	each		
	District 2 Macon	·	5	each		
	District 5 Jefferson City		9	each		
	District 7 Joplin		3	each		
	District 10 Sikeston		3	each	٠	
2	NEMA TS2 Traffic Signal Controller Assemblies					
	District 6 St. Louis		27	each		
	District 4 Kansas City		1 .	each		
	TS2 bids – a list including each component					
	with the manufacturer name and model number					
	shall be completed and returned with the bids. Only					
	TS2/Type 2 controllers on the attached list will be					
	accepted. Only TS1cabinets on the latest revision					
	of the MoDOT Approved Product List for Traffic					
	Signals and Highway Lighting will be accepted.					
	The controllers must be built according to the	Prices to	remain firm u	intil No	vember 3	30, 2007
	attached specifications and wired according to					
	the individual phasing sheets.					
	Award will be made Item-by-Item.					
	Return sealed bid to the address		·			
	shown at the top of this page.					

(SEE ATTACHED FOR CONDITIONS AND INSTRUCTIONS)

In compliance with the above Request For Bid, and subject to all conditions thereof, the undersigned bidder agrees to furnish and deliver any or all the items on which prices were bid within the timeframe specified herein, after receipt of formal purchase order.

Firm Name:	
Address:	
By (Signature):	
Type/Print Name	
Title:	
	Address: By (Signature): Type/Print Name

TS2 Traffic Signal Controllers Approved For Purchase

Eagle EPAC M42 (type 2)

Eagle EPAC M52 (type 2)

Econolite ASC/2S-1000 (type 1)

Econolite ASC/2S-2100 (type 2)

Naztec 980 (type 2)

MISSOURI DEPARTMENT OF TRANSPORTATION NEMA TS1 TRAFFIC CONTROLLER ASSEMBLIES

The equipment shall conform to the latest revision of Section 1092 of the Missouri Standard Specifications for Highway Construction and the following:

- 1. Controller operation shall comply with color sequence and phasing shown on attached intersection layout(s) and phasing and timing sheet(s) or controller order form.
- 2. Time-delay-to-call shall be integral with detectors so indicated. Calling detectors shall be supplied where indicated.
- 3. Cabinets indicated for side of pole mounting shall be furnished with the bottom undrilled or with a plate of the same cabinet material, covering 85 percent of the bottom area, attached to the bottom with four, 1/4 inch diameter bolts.
- 4. Furnish three complete operation manuals for all equipment, including but not limited to controllers, conflict monitors, detectors and auxiliary equipment. Furnish four complete cabinet wiring diagrams with each controller. The cabinet wiring diagrams shall include labeling for all field terminal connections and shall provide an orientation of the terminal layout that conforms with the intersection information supplied.
- 5. Only items on the latest revision of the Missouri Department of Transportation Approved Products List for Traffic Signals and Highway Lighting Equipment will be accepted. The attached Traffic Controller Assembly Equipment List shall be completed and returned with the bids.
- 6. Closed Loop Controller Requirements:

If the controller is specified for a closed loop system, then it shall be fully communications and features compatible with the specified system and shall conform to the latest revision of Section 1092 of the Missouri Standard Specifications for Highway Construction and the following. All necessary hardware shall be supplied to provide communications. The MoDOT D Plug is not required for the closed loop controllers.

A. Interconnect Panel:

If this item is specified, the cost shall be included in the price bid for the controller.

B. Dial-Up Modem:

If this item is specified, the cost shall be included in the price bid for the controller.

C. Cabinet Accessories:

1. Telephone Interface Panel

The cost of this item shall be included in the price bid for the system master.

2. Extra Service Outlet

The cost of this item shall be included in the price bid for the system master.

- 7. These controllers shall be equipped with internal time base coordination using daily midnight reference or a selectable daily reference of which midnight can be selected. Each cabinet shall be furnished with twelve load switch jacks, unless otherwise indicated. Load switch jacks shall be completely wired to field terminal facilities as indicated on the controller order form. Conflict monitor shall be a twelve channel unit. All necessary components such as load switches, conflict monitors, flash transfer relays, and detector amplifiers shall be furnished. Cabinet type, interconnect information and delivery locations are attached.
- 8. All boxes of equipment delivered for a specific intersection should be clearly marked with both the controller number and the intersection, as shown on the Delivery Schedule.
- 9. All controllers shall be stamped or tagged with a manufacturer's serial number.

Award

The right is reserved to award all or none of the controllers and compatible accessories to a bidder, or to reject any and all bids.

Delivery

All equipment must be received at the specified destination within 90 calendar days after the issue date of the purchase order. Liquidated damages for late delivery will be assessed at \$50.00 per controller per day after the specified delivery date.

All boxes required to complete the controller assembly shall be packaged together as one.

Acceptance

All equipment shall be subject to a twenty day acceptance period, which includes fifteen days for testing the equipment and five days for the supplier to repair or replace any defective equipment. The test period shall begin no later than fifteen days after the date the equipment is received. Any failure or malfunction of the equipment during the test period shall be corrected at the vendor's expense. The equipment shall then be tested for an additional fifteen days. This procedure shall be repeated until the equipment has operated to the state's satisfaction for fifteen consecutive days. Liquidated damages for defective equipment shall be assessed at \$50.00 per controller per day after the twenty day acceptance period.

Liquidated Damages

Liquidated damages will be limited to 50 (fifty) percent of the total contract price. When this amount is reached, the Commission, at its discretion, reserves the right to cancel the remainder of the contract without being considered in breach of the contract and without any additional payment to the bidder. Prior to the effective date of cancellation by the Commission, the Commission will purchase all units requested, received and found acceptable, less any liquidated damages. The Commission will apply liquidated damages to those amounts not fulfilled.

Dated: September 26, 2006 3 of 3

TRAFFIC CONTROLLER ASSEMBLY EQUIPMENT LIST NEMA TS1 Traffic Signal Controller Assemblies

The following list shall be completed and returned with the bid. All delivered equipment shall be the products listed below.

<u>Item</u>	<u>Manufacturer</u>	Catalog Number
Cabinet and Back Panel Assembly		
NEMA Controller		
Conflict Monitor		
Load Switch		
Flasher		
Flash Transfer Relay	· · · · · · · · · · · · · · · · · · ·	
Surge Protector		
Controller Breaker	-	
Auxiliary Breaker		
Power Supply (Card Rack Detectors)		
Detector, Induction Loop (2 Channel-Rack Mounted)		
Signed:	Title:	Date:

September 26, 2006 1 of 14

MISSOURI DEPARTMENT OF TRANSPORTATION NEMA TS2 TRAFFIC CONTROLLER ASSEMBLIES

The equipment shall conform to the latest revision of Section 1092 of the Missouri Standard Specifications for Highway Construction and the following:

- 1. Controller operation shall comply with the phasing shown on the attached controller order form.
- 2. Time-delay-to-call shall be integral with detectors so indicated. Calling detectors shall be supplied where indicated.
- 3. Cabinets indicated for side of pole mounting shall be furnished with the bottom undrilled or with a plate of the same cabinet material, covering 85 percent of the bottom area, attached to the bottom with four, 1/4 inch diameter bolts.
- 4. Furnish three complete operation manuals for all equipment, including but not limited to controllers, conflict monitors, detectors and auxiliary equipment. Furnish four complete cabinet wiring diagrams with each controller. The cabinet wiring diagrams shall include labeling for all field terminal connections and shall provide an orientation of the terminal layout that conforms with the intersection information supplied.
- 5. Only items on the latest revision of the Missouri Department of Transportation Approved Products List for Traffic Signals and Highway Lighting Equipment will be accepted. The attached Traffic Controller Assembly Equipment List shall be completed and returned with the bids.
- 6. TS2 Controller Assembly Requirements:
 - A. <u>Traffic Controller Assemblies</u>. Traffic controller assemblies are defined as the complete assembly of all required equipment and components for control of traffic signal indications. Traffic controller assemblies shall conform to the requirements of the latest revision of NEMA Standards Publications No. TS 2, hereafter called NEMA. Each assembly shall consist of a controller cabinet, controller unit, back panel, malfunction management unit, all required wiring, switches and connectors and all other equipment as defined in these specifications and as shown on the plans. Double controller assemblies to control two intersections shall consist of a controller cabinet, two controller units, two back panels, two malfunction management units all required wiring, switches and connectors and all other equipment as defined in these specifications and as shown on the plans.

1. General.

a. Voltage and Temperature Variations. Variations in the voltage of the power supply from 89 to 135 volts or sustained temperatures inside

September 26, 2006 2 of 14

the cabinet between -30 F(-34 C) and +165 F (+74 C) shall not change the timing of any functions or cause electrical or mechanical damage. Heater elements shall not be used to attain compliance with these requirements.

- b. Fuse Protection. All controllers and other specified auxiliary equipment shall be properly protected with fuses on each applicable unit. Fuses shall be installed in 1/4 twist or screw-in type fuse holders or shall be automotive blade-type fuses. Pop-out fuse holders shall not be used. There shall be no exposed high voltage contacts on the outside of any unit.
- c. Warranty. All controller units, on-street system masters, malfunction management units, terminals and facilities, detectors and any other auxiliary unit(s) provided as specified shall be warranted by the manufacturer to be free from defects in workmanship and material for at least one year from the date of project acceptance. Any components found to be defective during the warranty period shall be replaced free of charge. All warranties provided shall be transferred to the Commission upon project acceptance. No direct payment will be made for warranties.
- 2. Controller Units (CU). This section supplements NEMA in describing the general specifications for actuated solid-state controller units. If requested by the engineer, the contractor shall provide a prototype controller for testing and evaluation.
 - a. CU Configuration.
- (i) CUs shall be NEMA Actuated Type 2 with the following connectors:

Port 1

Port 2

Port 3

Connector A

Connector B

Connector C

Connector D

- (ii) CUs shall be capable of operation of a minimum of 12 vehicle and pedestrian phases and 8 overlaps.
- (iii)All phases and overlaps shall be activated or inactivated by program entry.
- b. Actuated Coordination. Actuated coordination shall conform to NEMA and the following:

- (i) Signal phases controlling the movements on which signal progression is desired (coordinated phases) shall be serviced during a guaranteed period as specified by programming. While under coordination, the designated coordinated phase(s) shall be capable of releasing from a hold status and operating in the actuated mode. The CU shall operate in actuated mode from a designated hold release point to the corresponding force off point(s) of the coordinated phase(s). If the coordinated phase(s) gaps out or reaches the force off point and there is a conflicting phase with a call or recall, the CU shall terminate the coordinated phase(s) and service the next phase in the sequence with a call or recall.
- (ii) For non-coordinated actuated phases, vehicle and pedestrian detectors shall remain active. The non-coordinated actuated phases may gap out prior to the force off point or shall be forced off at the force-off point and the next phase in the sequence with a call or recall shall be serviced. The coordinator shall provide selectable recall by signal plan for non-coordinated phases. The coordinator shall be capable of fixed time operation for any and all active phases by timing plan.
- (iii) The coordinator shall be capable of generating individual force-off points for each available phase in each timing plan even though it may not be necessary to use all of phases. The position of the force-off points shall be settable at any percentage point or seconds in any selected timing plan. The coordinator shall be capable of placing force-off points at fixed points in the cycle or floating points as selected by programming. With floating force-offs split times govern the force-off point in each cycle regardless of the starting point of the phase.
- (iv) The coordinator shall have all of the following methods of synchronizing to the master sync pulse:
- (1) Dwell. The coordinator shall establish a new offset by stopping the cycle timer in the coordinated phase(s) green, until the new offset value is reached.
- (2) Dwell with Interrupt. The coordinator shall establish a new offset by stopping the cycle timer in the coordinated phase(s) green. The maximum time the coordinator can dwell shall be adjustable from 1 to 99 seconds.
- (3) Shortway. The coordinator shall establish a new offset by the shortest route possible.
- (v) For hardwire systems, if the sync monitor detects a fault the controller shall revert to internal time based control unless no

4 of 14

time based control is programmed. In that case, the CU shall revert to free mode.

(vi) A MoDOT D-plug shall be provided between the D-plug on the controller and the interconnect panel on the cabinet. In the absence of the sync signal, the coordination interface shall be configured to cause the controller to default to free operation. Configuration of the MoDOT D-plug shall be as follows:

Pin	Assignment	Pin	Assignment	Pin	Assignment
D1	Cycle 1	D10	Split 4	D19	Future (Pre-empt 4)
D2	Cycle 2	D11	Offset 1	D20	Flash
D3	Cycle 3	D12	Offset 2	D21	Hardwire
					Interconnecta
D4	Cycle 4	D13	Offset 3	D22	Future
D5	Future	D14	Future (Offset	D23	Future
	(Cycle 5)		4)		
D6	Future	D15	Future (Offset	D24	Future
	(Cycle 6)		5)		
D7	Split 1	D16	Pre-empt 1	D25	Future
D8	Split 2	D17	Pre-empt 2		
D9	Split 3	D18	Pre-empt 3		

(vii) The MoDOT D-plug shall be a Cinch TRW Super D Connection as follows:

1 – Part #TB 25P	Plug	1 – Part #SHD-25GL	Hood with Latch
1 – Part #TB 25SLB-1	Socket	1 – Part #SHD-25GFCS	Hood with Filler Ends

- c. Time Base Control. Time Base Control shall conform to NEMA and the following:
- (i) The CU shall be zero time based, settable to the second, programmable for 52 weeks, accommodate at least 3 weekly programs, 12 day programs and not less than 12 exception day programs. Total event changes shall not be less than 160. It shall be possible to interrogate the CU to determine the year, month, day, hour, minute, second, a.m. and p.m., as well as program information programmed in the unit. Indicators shall show the condition of all outputs.
- (ii) The first program of the day shall be implemented at the beginning of the minute selected. When changing from one cycle length to another while in the coordination mode, the change to the new cycle length shall not occur until the present cycle length has terminated. If the controller is operated in the free mode between cycle lengths, the next

September 26, 2006 5 of 14

cycle length programmed shall begin at the beginning of the minute selected.

- (iii) The CU shall be capable of generating a daily reference point at which time all-coordinated cycles are resynchronized. This daily reference point shall be either 12:00 midnight or a selectable time of which 12:00 midnight could be selected. The resynchronization reference time is an arbitrary point in time that marks the beginning of all cycles on a daily basis.
- (iv) The CU shall be capable of generating an absolute reference point at which time all coordinated cycles are resynchronized. This absolute reference point shall be a selectable time by date and hour and minute that marks the beginning of all cycles.
- (v) Timing base shall be the 60 hertz power line frequency. Timing error shall not exceed plus or minus one second per month from any adjacent CU operating from the same power company substation. Timing error due to power failure or low voltage shall not exceed plus or minus 0.005 percent.
- d. Detector Functions. The CU shall allow vehicle and pedestrian detector inputs to be programmed to any available phase. In addition to normal detector operation, the CU shall have the following programmable functions for vehicle detector inputs.
- (i) Call Detector. A mode of operation where the detection of a vehicle places a locking call into the assigned phase when the assigned phase is not green.
- (ii) Detector Switching. Besides the normal assigned phase, the detector input can be programmed to switch to a secondary phase while the secondary phase is green and the assigned phase is not green. In all other conditions the detector input acts as a normal detector input for the assigned phase.
- (iii) Extend Function. While the assigned phase is green, each detector actuation input is extended a programmed amount of time with a range of at least 0 to 99 seconds.
- (iv) Delay Function. While the assigned phase is not green each detector actuation input is delayed a programmed amount of time with a range of at least 0 to 99 seconds.
- e. Special Functions. Any special functions, special sequences, or modes of operation specified in the plans or required to operate the

September 26, 2006 6 of 14

specified signal phasing and timing shall be included in the programming capability of the CU.

- 3. Malfunction Management Unit (MMU). Each controller assembly shall contain a malfunction management unit external to the controller-circuitry conforming to NEMA. When the MMU actuates flashing operation, the controller shall freeze or stop timing with the stop time switch in Normal position in the condition causing the actuation until manually reset.
- a. Phases or overlaps with only one signal head shall have load resistors installed across the outputs to prevent a single lamp failure from actuating the MMU.
- 4. Terminals and Facilities. All terminals and facilities in the controller assembly shall conform to NEMA TS2 Type 1 and the following requirements. For double controller assemblies, two complete sets of all terminals and facilities shall be provided with all items contained in the same compartment as the associated CU.

a. Wiring and Terminations

- (i) Back Panel Wiring. All wiring carrying 120 volts AC shall be discrete insulated wires and shall be soldered directly to lugs on the back of terminal blocks or sockets. All discrete wiring on the backside of the back panel shall be neatly bundled and secured with plastic cable ties.
- (ii) Any multi-conductor cable shall be contained in an expandable braided sleeving.
- (iii) Input/output terminals shall be configured according to the following NEMA configurations:

Specified Operation	NEMA Configuration (NEMA Table 5.3.1-1)
2 through 8 Phases	Configuration 3 (12 Load Switch Positions)
9 through 12 Phases or more than	Configuration 4 (16 Load Switch Positions)
4 Overlaps or Ped Phases	

(iv) In addition to the minimum NEMA requirements, four pedestrian call input terminals shall be provided.

(v) If hardwire interconnection is specified, the following input/output terminals shall be provided:

Timing Plan A Output
Timing Plan B Output
Timing Plan C Output
Timing Plan D Output
Offset 1 Output
Offset 2 Output
Offset 3 Output
Timing Plan A Input
Timing Plan B Input
Timing Plan C Input
Timing Plan D Input
Offset 1 Input
Offset 2 Input
Offset 3 Input
Interconnect Common

- (vi) Buss Interface Units (BIU) and BIU racks shall be provided for all required terminals and facilities.
- (vii) All Port 1 cable connectors shall have positive strain relief latches such that tension on the cable will not disconnect the connector from the unit they are connected to.
- b. Switches and Controls. Each controller cabinet shall be furnished with the following switches and controls. For double controller cabinets, two sets of switches and controls are provided, one set for each controller installed in each compartment.
- (i) Power Interrupt Switch A switch located inside the main cabinet shall interrupt electrical power to the controller during maintenance on the controller. Operation of this switch shall not affect the flash operation. This switch shall not be accessible via the police panel.
- (ii) Flash Switches The following switches shall place the signal on flash. Operation of these switches shall not affect the electrical power supply to the controller. When the signals are returned to normal operation the external start shall be activated causing the controller to revert to the programmed initialization phase(s).
- (1) Each controller cabinet shall be furnished with a clearly labeled flash switch mounted in the access or police panel.

- (2) Each controller cabinet shall be furnished with a clearly labeled flash switch mounted on the cabinet door in the inside of the cabinet.
- (iii) Stop Time Switch A three position switch mounted inside the main cabinet shall provide the following functions:
 - (1) Stop Time Causes the controller to stop time.
- (2) Normal Allows the controller to cycle all phases, but during MMU flash causes the controller to stop time.
- (3) Run Allows the controller to cycle all phases and during any flashing operation allows the controller to continue cycling all phases without displaying them on the signal heads.
- (iv) Switches or relays which completely interrupt power to the signal heads other than the protective circuit breaker shall not be installed in the cabinet.
- (v) If specified, a manual operation push button shall be installed in the police panel. The push button shall be wired for manual operation of the signals. The push button shall be water resistant and designed to protect the user against electrical shock and shall be supplied with a coiled cord with a nominal 6-foot (2-m) stretched length. A clearly labeled switch shall also be installed in the police panel to switch between manual or automatic operation of the controller.

c. Detector Facilities.

- (i) At a minimum, one NEMA Configuration 2 detector rack shall be provided with the associated BIU. If more than 16 detector channels are specified, additional NEMA Configuration 1 or 2 detector racks and associated BIU(s) shall be provided for the required number of detectors. Each detector channel shall be assigned to a separate detector input into the CU.
- (ii) Detector loop connections shall be provided for the total number of detector channels available in the detector racks supplied as specified above.
- (iii) Two terminals shall be provided for each detector as follows.

- (1) Screw terminal strips mounted vertically on the left side of the cabinet approximately 6 inches (150 mm) from the bottom of the cabinet.
- (2) All inductive loop detector inputs shall be protected with two 30-volt metal oxide varistors (MOV) with a 30 Joule rating. An MOV shall be connected between each field terminal and cabinet ground.
- (iv) The detector rack shall be attached to the controller cabinet shelf by an easily removable attachment. Sufficient wire lengths shall be provided for access to the back of the rack. The rack shall not block the back panel or other termination panels.
- (v) Unless shown differently on the controller order form, each detector field input into the card rack shall be associated with the appropriate card position as follows:

Channel

Card Position

	1	2	3	4	5	6	7	8
1	Phase 1	1 or 6	6	6	3	3 or 8	8	8
2	Phase 5	5 or 2	2	2	7	7 or 4	4	4

(vi) Each detector channel shall be clearly labeled with detector number, phase and direction.

d. Power Distribution.

- (i) Each assembly shall contain a separate aluminum power panel located in the lower right portion of the cabinet containing the following equipment:
- (1) Main breaker one type B circuit breaker conforming to Sec 1091 that shall interrupt power to the controller and signals. The frame size and trip rating is shown on the traffic signal plans or designated in the contract.
- (2) Auxiliary breaker one type B circuit breaker conforming to Sec 1091 that interrupts power to cabinet lamp and receptacle. The frame size and trip rating shall be 15 amperes.
- (3) One mercury contactor that controls power to the signal bus.
 - (4) One radio frequency interference suppresser.

- (5) One AC service transient suppression device.
- (6) One terminal block for AC power input.
- (7) One earth ground bus terminal block.
- (8) One isolated AC neutral bus terminal block.
- (ii) Each controller assembly shall have a fluorescent lighting fixture.
- 5. Auxiliary Interfaces for Controllers. Interface panels shall be aluminum panels with deburred edges and rounded corners installed in the controller cabinet containing the required terminals and equipment. Interface panels shall be neatly laid out, neatly wired and easily accessible. For double controller cabinets, the auxiliary interface shall be located in the same compartment as the associated CU.
- a. Pre-emption Interface. The pre-emption operation and interface shall conform to NEMA. The pre-emption interface shall include any field wire termination panels, relays or isolators, wiring and connectors required for proper operation. Each preemption field input shall be protected with a metal oxide varistor (MOV). For 120-volt inputs, a 150-volt MOV with an 80-Joule rating shall be used and for 24-volt inputs, a 30-volt MOV with a 30-Joule rating shall be used.
- b. Hardwire Master and Local Coordination Interface. The coordination interface shall consist of any field wire termination panels, wiring and connectors required for proper operation. The master coordination interface shall output commands to the local controllers in the system. Local coordination interfaces shall accept command inputs from the master coordination interface. Coordination interfaces shall be connected to one another or to a telephone interconnection unit, by a multiconductor cable.

The coordination interface shall provide a control terminal strip for 7 or 12 wire interconnect as specified in the plans, vertically or horizontally mounted, that shall be located 6 (150 mm) to 8 (200 mm) inches above the bottom of the cabinet. Control voltages applied to the terminals are associated with the following input/output functions:

<u>7 - Wire</u>	12 - Wire
	•
Neutral	Neutral
Timing Plan A (Dial 2)	Timing Plan A (Dial 2)
Timing Plan B (Dial 3)	Timing Plan B (Dial 3)

Timing Plan C (Split 2)

Offset 1

Offset 2

Automatic Flash

Offset 3

Automatic Flash

Timing Plan C (Split 2)

Timing Plan D (Split 3)

Offset 1

Offset 2

Offset 3

Automatic Flash

All command voltages applied to these terminals shall be 120 volts AC. Terminals for interconnect cable shall be fused and provided with a 150-volt metal oxide varistor (MOV) with an 80 Joule rating. Interface circuitry between this terminal strip and the controller shall be by solid state or relay logic.

- c. Closed Loop System Interface. If the controller assembly will be part of a closed loop system, all components required to interface with the system shall be in accordance with the plans.
- d. Dial-Up Modem Interface. This panel shall provide for interfacing of a leased, unconditioned telephone drop to a Hayes compatible modem that connects to the on-street system master or local controller as specified in the plans. The panel shall be mounted on the inside of the cabinet on the right side. A telephone network interface, such as a Siecor CAL3000 or other approved interface acceptable to the local phone company shall be attached to the aluminum panel. The telephone interface shall also include the installation of the necessary cable, connectors, etc. to connect the interface to the telephone drop provided by the local telephone company.
- 6. Auxiliary Devices. Each auxiliary unit shall be enclosed in a suitably finished metal or molded plastic case. It shall be mounted in the controller cabinet unless otherwise specified. The function of each auxiliary unit shall be indicated by an identification plate on the case. Auxiliary equipment cases shall be ventilated. Temperature, voltage and frequency shall meet the requirements of Sec 1a unless otherwise specified.
- a. External Time Switches. External time switches shall be solid state, keyboard entry and contain filtering and shielding circuitry to protect the unit's operation against electrical interference. Timing shall be based on the 60 Hz power supply frequency. Each unit shall contain a programmable automatic central daylight time compensation feature. Each unit shall contain a back-up power source to maintain time and memory functions during loss of AC power. Each unit shall provide a weekly program with at least 20 event changes per week.
- b. Dial-Up Modem. The unit shall be an auto-dial, auto-answer modem. The modem shall be Hayes compatible capable of responding to

the standard "Hayes command set". The modem shall be self-contained. The unit shall be powered by a nominal 120 VAC from the duplex service outlet provided in the cabinet. The modem shall be capable of operating at all standard baud rates from 300 to 56K baud over a standard dial-up, unconditioned telephone line. Installation shall include the appropriate interface cable to connect to an RJ-11 telephone jack on the telephone interface panel, the RS-232 cable from the modem to the system master, all other cabling, connectors and incidental items necessary for operation.

- 7. Controller Cabinets. Controller cabinets shall be cast aluminum or 0.125 inch (3.2 mm) reinforced sheet aluminum alloy and be of clean-cut design and appearance. The cabinet shall provide ample space for housing all equipment and components. Controller cabinets housing solid state controllers shall be furnished with unused cabinet space measuring 18 inches (450 mm) wide by 12 inches (300 mm) high by 12 inches (300 mm) deep. Cabinet size shall be not less than 54 inches (1350 mm) high by 38 inches (950 mm) wide by 25 inches (625 mm) deep and support a 12 or 16 position backpanel. The cabinet shall contain rigid shelves of such construction that the CU and auxiliary equipment may be withdrawn from the cabinet without breaking any electrical connections or interrupting normal controller operation.
- a. A hinged door or doors shall provide complete access to the interior of the cabinet. Door holds shall be furnished which shall hold the door in an open position at least 90 degrees from the closed position. The doors shall fit against a rain tight gasket. Each door shall be provided with a cabinet lock and shall have a stamped or raised outside designation, "Traffic Control" or other approved identification. An auxiliary door, positioned on each main cabinet door, equipped with a rain tight gasket, shall allow access to a switch panel and shall be equipped with a lock whose key will not unlock the main door. Two keys shall be furnished for each type lock used. The door hinges and pins shall be of corrosion resistant metal. Pins shall be rolled or solid rod, at least 1/8 inch (3.18 mm) in diameter, except if continuous hinges are furnished, the pins shall be continuous the full length of the hinges and shall be not less than 1/16 inch (1.59 mm) in diameter.
- b. The back panel in all controller cabinets shall be hinged at the bottom to permit the top of the panel to be rotated forward and down to an angle of not less than 45 degrees with all components, including load switches, attached for maintenance purposes. The bottom of the back panel shall be not less than 6 inches (150 mm) above the bottom of the cabinet.
- c. Cabinets shall have a thermostatically controlled ventilating fan with exhausting capability, in an enclosure, of at least 150 cubic feet per

minute (4.25 m³/min) for cabinets up to 30.5 cubic feet (0.86 m³) and at least 250 cubic feet per minute (7.08 m³/min) for cabinets 30.5 cubic feet (0.86 m³) and more, installed in the top of the cabinet. These cabinets shall be supplied with a replaceable furnace type fiberglass filter of at least one square foot (m²) area mounted behind louvers in the lower one fourth of the door.

- d. Double controller cabinets for two controllers shall be not less than 57 inches (1425 mm) high by 74 inches (1850 mm) wide by 17 inches (425 mm) deep and shall support two 12 position back panels. All double cabinets shall have two doors that are hinged on the outside corners of the cabinet so that the doors open away from each other. Double cabinets shall have a divider between the two halves of the cabinet with an 8-inch (200-mm) opening between the compartments at the bottom of the divider for wiring between the compartments.
- <u>B. Induction Loop Detectors.</u> Loop detector units shall conform to NEMA. If specified, each channel shall have extension and delay timing features as specified in NEMA. Each detector shall have a regulator for the power input. The regulator shall have the appropriate power and voltage rating for operation of the detector. Card rack detectors shall be card rack-mounted detectors as specified in NEMA unless otherwise specified on the controller order form.
- 7. These controllers shall be equipped with internal time base coordination using daily midnight reference or a selectable daily reference of which midnight can be selected. All necessary components shall be furnished. Cabinet type, interconnect information and delivery locations are attached.
- 8. All boxes of equipment delivered for a specific intersection should be clearly marked with both the controller number and the intersection, as shown on the Delivery Schedule.
- 9. All controllers shall be stamped or tagged with a manufacturer's serial number.

Award

The right is reserved to award all or none of the controllers and compatible accessories to a bidder, or to reject any and all bids.

Delivery

All equipment must be received at the specified destination within 90 calendar days after the issue date of the purchase order. Liquidated damages for late delivery will be assessed at \$50.00 per controller per day after the specified delivery date.

All boxes required to complete the controller assembly shall be packaged together as one.

Acceptance

All equipment shall be subject to a twenty-day acceptance period, which includes fifteen days for testing the equipment and five days for the supplier to repair or replace any defective equipment. The test period shall begin no later than fifteen days after the date the equipment is received. Any failure or malfunction of the equipment during the test period shall be corrected at the vendor's expense. The equipment shall then be tested for an additional fifteen days. This procedure shall be repeated until the equipment has operated to the state's satisfaction for fifteen consecutive days. Liquidated damages for defective equipment shall be assessed at \$50.00 per controller per day after the twenty-day acceptance period.

Liquidated Damages

Liquidated damages will be limited to 50 (fifty) percent of the total contract price. When this amount is reached, the Commission, at its discretion, reserves the right to cancel the remainder of the contract without being considered in breach of the contract and without any additional payment to the bidder. Prior to the effective date of cancellation by the Commission, the Commission will purchase all units requested, received and found acceptable, less any liquidated damages. The Commission will apply liquidated damages to those amounts not fulfilled.

NEMA TS1/TS2 Traffic Signal Controller Order Form TRAVELWAY **CROSS STREET** LOG MILE DISTRICT COUNTY DESIGNATION 66.20800 CLINTON 69 3rd Street 1 - ST, JOSEPH US SHIP TO: 4718 S. 169 HIGHWAY ST. JOSEPH, MO 64507 RON MCAFEE CONTROLLER TYPE **CABINET TYPE** CONTROLLER TS1 ACTUATED NEMA/PT STANDARD EV **DETECTION TYPE** CABINET DESCRIPTION SYSTEM MASTER INDUCTION VIDEO SYSTEM INTERFACE INTERCONNECT TYPE NON-COORDINATED PRE-EMPT VIDEO SYSTEM TYPE BACKPANEL 12-POSITION-TS1 PRE-EMPT INFORMATION DPLUG **NEMA LOAD SWITCH ASSIGNMENTS ✓** EXCLUSIVE PED PHASE # OF STANDARD 2-CHANNEL DETECTOR **NEMA** # OF DELAY/EXT 2-CHANNEL DETECTOR CARD RACK CONFIGURATION FILL IN POSITIONS NEEDED WITH ASSOCIATED PHASE NUMBER 1-CH1 2-CH1 3-CH1 4-CH1 5-CH1 6-CH1 8-CH1 1-CH2 3-CH2 6-CH2 7-CH2 8-CH2 DET DET DET DET DET **DELAY/EXTEND** V V V V ~ V V V DET 5 V DET 6 V DET 7 V DET V DET 2 V DET 3 V DET 4 V DET 8 **VIDEO** OTHER INFORMATION OR SPECIAL REQUIREMENTS: Need 8 vehicle phases and 4 ped phases

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NEMA TS1/TS2 Traffic Signal Controller Order Form DISTRICT COUNTY DESIGNATION TRAVELWAY CROSS STREET LOG N 1-ST. JOSEPH DEKALB US 69 WallMart 65.01

DISTRICT	COUNTY	DESIGNATION	TRAVELWAY	CROSS STREET	LOG MILE
1 - ST. JOSEPH	DEKALB	US	69	WalMart	65.01200
SHIP TO:					
RON MCAFEE	471	18 S. 169 HIGHWAY		ST. JOSEPH, MO	64507
CONTROLLER		CONTROLLER TYPE		CABINET TYPE	
TS1		ACTUATED I		NEMA/PT STANDARD EV	
SYSTEM MASTER		DETECTION TYPE		CABINET DESCRIPTION	
		VIDEO W/CARD RACK			
NTERCONNECT TYPE		VIDEO SYSTEM INTERFACE			
NON-COORDINATED		INDUCTION DETECTOR PANEL			
BACKPANEL		VIDEO SYSTEM TYPE		PRE-EMPT	
12-POSITION-TS1		Autoscope Solo Pro			
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2 - MACON	COUNTY	DESIGNATION TRAVELWAY	CROSS STREET	LOG MILE
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SHIP TO:	12692	26 US HIGHWAY 63	MACON, MO	63552
RON HARRISON				
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SYSTEM MASTER			CABINET DESCRIPTION	
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2 - MACON	LIVINGSTON	US	65	Webster St	38.39000
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RON HARRISON	26826 US HIG	HWAY 63		MACON, MO	63552
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16-POSITION-TS1	Future exp	ansion			
				PRE-EMPT INFORMATION	
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RON HARRISON 26826 US HIGHWAY 63 MACON, MO 63552	2 - MACON	LIVINGSTON	j Jus	65	Calhoun St	38.33200
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DISTRICT	COUNTY	DESIGNATION TRAVEL	A STATE OF THE STA	LOG MILE 58.70900
2 - MACON	LIVINGSTON	US	Third St	100,1000
SHIP TO: RON HARRISON	12692	6 US HIGHWAY 63	MACON, MO	63552
RON HARRISON]2002	0 OS NIGHWAT OS		
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DISTRICT COUNTY 2 - MACON LIVINGSTO	DESIGNATION TRAVELWAY N US 65	CROSS STREET Jackson St	LOG MILE 58.45200
SHIP TO: RON HARRISON	26826 US HIGHWAY 63	MACON, MO	63552
CONTROLLER TS1	CONTROLLER TYPÉ	CABINET TYPE NEMA/PT STANDARD EV	
SYSTEM MASTER	DETECTION TYPE	CABINET DESCRIPTION	
INTERCONNECT TYPE NON-COORDINATED	VIDEO W/CARD RACK VIDEO SYSTEM INTERFACE INDUCTION DETECTOR PANEL		
BACKPANEL	VIDEO SYSTEM TYPE	PRE-EMPT	
16-POSITION-TS1	Future expansion	PRE-EMPT INFORMATION	
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NEMA TS1/TS2 Traffic Signal Controller Order Form DISTRICT COUNTY DESIGNATION **TRAVELWAY** CROSS STREET 5 - JEFFERSON CITY BOONE I-70 EB Ramp 0.04000 SHIP TO: JEFFERSON CITY, MO 65109 740 MODOT DRIVE KEVIN EGGEMEYER CONTROLLER **CONTROLLER TYPE CABINET TYPE** ACTUATED NEMA/PT STANDARD EV TS1 SYSTEM MASTER **DETECTION TYPE** CABINET DESCRIPTION INDUCTION INTERCONNECT TYPE VIDEO SYSTEM INTERFACE FIBER CLOSED LOOP PRE-EMPT VIDEO SYSTEM TYPE **BACKPANEL** 12-POSITION PRE-EMPT INFORMATION D PLUG **NEMA LOAD SWITCH ASSIGNMENTS # OF STANDARD 2-CHANNEL DETECTOR** NEMA # OF DELAY/EXT 2-CHANNEL DETECTOR CARD RACK CONFIGURATION FILL IN POSITIONS NEEDED WITH ASSOCIATED PHASE NUMBER 8-CH1 1-CH1 2-CH1 3-CH1 4-CH1 5-CH1 6-CH1 1-CH2 2-CH2 3-CH2 6-CH2 DET DET DET DET **DELAY/EXTEND** V DET 2 V DET 3 V DET 4 V DET 5 V DET 6 V DET 7 V DET 8 V DET VIDEO OTHER INFORMATION OR SPECIAL REQUIREMENTS:

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Go To Next Record

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JEFFERSON CITY	BOONE DESIGNATION TRAVELWAY MO 740	CROSS STREET I-70 SOR	LOG MILE 0.11000
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NEMA TS1/TS2 Traffic Signal Controller Order Form DISTRICT COUNTY DESIGNATION **TRAVELWAY CROSS STREET** LOG MILE BOONE Bernadette 0.20000 5 - JEFFERSON CITY SHIP TO: JEFFERSON CITY, MO 65109 740 MODOT DRIVE KEVIN EGGEMEYER CABINET TYPE CONTROLLER **CONTROLLER TYPE** ACTUATED NEMA/PT STANDARD EV TS1 SYSTEM MASTER **DETECTION TYPE** CABINET DESCRIPTION NEMA SYSTEM MASTER INDUCTION **VIDEO SYSTEM INTERFACE** INTERCONNECT TYPE FIBER CLOSED LOOP PRE-EMPT VIDEO SYSTEM TYPE **BACKPANEL** 12-POSITION PRE-EMPT INFORMATION D PLUG **NEMA LOAD SWITCH ASSIGNMENTS EXCLUSIVE PED PHASE** 9 10 # OF STANDARD 2-CHANNEL DETECTOR **NEMA** # OF DELAY/EXT 2-CHANNEL DETECTOR CARD RACK CONFIGURATION FILL IN POSITIONS NEEDED WITH ASSOCIATED PHASE NUMBER 7-CH1 1-CH1 5-CH1 8-CH1 2-CH1 3-CH1 4-CH1 6-CH1 1-CH2 2-CH2 4-CH2 5-CH2 6-CH2 7-CH2 8-CH2 DET DET DET DET DET DET DET **DELAY/EXTEND** \Box \Box V DET V DET 2 V DET 3 V DET 4 V DET 5 V DET 6 V DET 7 V DET 8 **VIDEO** OTHER INFORMATION OR SPECIAL REQUIREMENTS: This is now an Eagle Marc Master system.

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NEMA TS1/TS2 Traffic Signal Controller Order Form LOG MILE DESIGNATION **TRAVELWAY CROSS STREET** DISTRICT COUNTY 0.75000 5 - JEFFERSON CITY BOONE МО 740 Ash SHIP TO: KEVIN EGGEMEYER JEFFERSON CITY, MO 65109 740 MODOT DRIVE CABINET TYPE CONTROLLER **CONTROLLER TYPE** NEMA/PT STANDARD EV ACTUATED TS1 CABINET DESCRIPTION **DETECTION TYPE** SYSTEM MASTER INDUCTION VIDEO SYSTEM INTERFACE INTERCONNECT TYPE FIBER CLOSED LOOP PRE-EMPT **VIDEO SYSTEM TYPE** BACKPANEL 12-POSITION PRE-EMPT INFORMATION D PLUG **NEMA LOAD SWITCH ASSIGNMENTS** EXCLUSIVE PED PHASE **# OF STANDARD 2-CHANNEL DETECTOR** NEMA # OF DELAY/EXT 2-CHANNEL DETECTOR CARD RACK CONFIGURATION FILL IN POSITIONS NEEDED WITH ASSOCIATED PHASE NUMBER 1-CH1 4-CH1 5-CH1 6-CH1 7-CH1 8-CH1 8-CH2 6-CH2 7-CH2 1-CH2 2-CH2 3-CH2 4-CH2 5-CH2 DET DET DET DET DET DET DET **DELAY/EXTEND** V DET 6 V DET 7 V DET 3 V DET 4 V DET 5 V DET 8 V DET 2 V DET **VIDEO** OTHER INFORMATION OR SPECIAL REQUIREMENTS:

Go to Previous Record

Go To Next Record

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NEMA TS1/TS2 Traffic Signal Controller Order Form COUNTY TRAVELWAY CROSS STREET DISTRICT DESIGNATION 150.19300 **PETTIS** 5 - JEFFERSON CITY SHIP TO: JEFFERSON CITY, MO 65109 KEVIN EGGEMEYER 740 MODOT DRIVE CONTROLLER TYPE CABINET TYPE CONTROLLER NEMA/PT STANDARD EV ACTUATED CABINET DESCRIPTION **DETECTION TYPE** SYSTEM MASTER INDUCTION VIDEO SYSTEM INTERFACE INTERCONNECT TYPE PRE-EMPT VIDEO SYSTEM TYPE **BACKPANEL** 12-POSITION PRE-EMPT INFORMATION D PLUG **NEMA LOAD SWITCH ASSIGNMENTS** EXCLUSIVE PED PHASE # OF STANDARD 2-CHANNEL DETECTOR 6 NEMA # OF DELAY/EXT 2-CHANNEL DETECTOR CARD RACK CONFIGURATION FILL IN POSITIONS NEEDED WITH ASSOCIATED PHASE NUMBER 1-CH1 2-CH1 5-CH1 6-CH1 8-CH1 3-CH1 4-CH1 7-CH1 6-CH2 7-CH2 8-CH2 1-CH2 2-CH2 3-CH2 DET DET DET DET DET DET DET **DELAY/EXTEND** V DET 4 V DET 5 V DET 6 V DET 7 V DET 8 V DET V DET 2 V DET 3 **VIDEO** OTHER INFORMATION OR SPECIAL REQUIREMENTS: Close File Go to Previous Record Add a New Record Go To Next Record

NEMA TS1/TS2 Traffic Signal Controller Order Form CROSS STREET LOG MILE COUNTY DESIGNATION **TRAVELWAY** DISTRICT LAWRENCE 61.14800 7 - JOPLIN МО Hickory SHIP TO: JOHN FITE 2800 STEPHENS BLVD., BLDG. D JOPLIN, MO 64804 CONTROLLER CONTROLLER TYPE **CABINET TYPE** ACTUATED NEMA/PT STANDARD EV CABINET DESCRIPTION SYSTEM MASTER **DETECTION TYPE** nominal cabinet size 44x55x25.5 INDUCTION INTERCONNECT TYPE VIDEO SYSTEM INTERFACE Time Base Clock PRE-EMPT VIDEO SYSTEM TYPE BACKPANEL 12-POSITION-TS1 PRE-EMPT INFORMATION ☐ D PLUG **NEMA LOAD SWITCH ASSIGNMENTS ✓** EXCLUSIVE PED PHASE # OF STANDARD 2-CHANNEL DETECTOR NEMA # OF DELAY/EXT 2-CHANNEL DETECTOR CARD RACK CONFIGURATION FILL IN POSITIONS NEEDED WITH ASSOCIATED PHASE NUMBER 1-CH1 2-CH1 3-CH1 4-CH1 5-CH1 6-CH1 7-CH1 8-CH1 6 1-CH2 2-CH2 3-CH2 4-CH2 5-CH2 6-CH2 7-CH2 8-CH2 n 0 DET DET DET DET DET DET DET DET **DELAY/EXTEND** V DET 2 V DET 4 V DET 6 V DET 7 V DET 3 V DET 5 V DET 8 V DET **VIDEO** OTHER INFORMATION OR SPECIAL REQUIREMENTS: The exclusive ped phase is a school cross walk activated only by a crossing guard. During the time ped heads are lighted a dynamic "No Turn on Red" sign is also active. Ped indications and "No Turn On Red" sign are dark until cross walk is activated.

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NEMA TS1/TS2 Traffic Signal Controller Order Form CROSS STREET LOG MILE DISTRICT COUNTY DESIGNATION **TRAVELWAY** LAWRENCE Bus 39-Market 61.08400 7 - JOPLIN МО SHIP TO: JOHN FITE 2800 STEPHENS BLVD., BLDG. D JOPLIN, MO 64804 CONTROLLER **CABINET TYPE CONTROLLER TYPE** TS1 ACTUATED NEMA/PT STANDARD EV **DETECTION TYPE** CABINET DESCRIPTION SYSTEM MASTER nominal cabinet size 44x55x25.5 INDUCTION VIDEO SYSTEM INTERFACE INTERCONNECT TYPE Time Base Clock PRE-EMPT VIDEO SYSTEM TYPE **BACKPANEL** 12-POSITION-TS1 PRE-EMPT INFORMATION D PLUG **NEMA LOAD SWITCH ASSIGNMENTS** EXCLUSIVE PED PHASE # OF STANDARD 2-CHANNEL DETECTOR NEMA # OF DELAY/EXT 2-CHANNEL DETECTOR CARD RACK CONFIGURATION FILL IN POSITIONS NEEDED WITH ASSOCIATED PHASE NUMBER 1-CH1 2-CH1 5-CH1 6-CH1 2-CH2 1-CH2 5-CH2 6-CH2 7-CH2 8-CH2 3-CH2 DET DET DET DET DET DET DET DET **DELAY/EXTEND** V DET 2 V DET 7 V DET 4 V DET 5 V DET 6 V DET 8 V DET 3 V DET **VIDEO** OTHER INFORMATION OR SPECIAL REQUIREMENTS:

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The second secon	COUNTY	DESIGNATION	TRAVELWAY	CROSS STREET	LOG MILE
JOPLIN	JASPER	MO -	66	1001 W. 7th Street	5.29000
P TO:	200	O CTTPUTAGE BLVD. BLDC. D		JOPLIN, MO	64804
N FITE	J [2800	O STEPHENS BLVD., BLDG. D		_{П.} рорцій, мо	104004
ITROLLER		CONTROLLER TYPE		CABINET TYPE	
TEM MASTER		ACTUATED DETECTION TYPE		OTHER (AS SPECIFIED) CABINET DESCRIPTION	ja store Splattick
	j			Cannot exceed these dimensi	
ERCONNECT TYPE	V	/IDEO SYSTEM INTERFACE		17"depth with door,24"width,4 pole mounted cabinet, 3"cond centered in bottom.	
				PRE-EMPT	
CKPANEL	· · · · · · · · · · · · · · · · · · ·	VIDEO SYSTEM TYPE	مستخمستخمشد مست		
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#OF	DELAY/EXT 2-CH	IANNEL DETECTOR 0			
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		2-CH1 3-CH1 4-	CH1 5-CH1	6-GH1 7-GH1	germanian and the
	1-CH2 0	2-CH2 3-CH2 4- 0 0 0 4- 1 0 0 0 4- 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CH1 5-CH1 0 0 CH2 5-CH2 0 0	6-CH1 7-CH1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8-CH2 0
DELAY/EXTEND	1-CH2 0	2-CH1 3-CH1 4- 0 0 0 0 0 2-CH2 3-CH2 4- 0 0 0 0	CH1 5-CH1 0 0 CH2 5-CH2 0 0 DET DET	6-CH1 7-CH1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8-CH2 0
DELAY/EXTEND	1-CH2 0 DET	2-CH1 3-CH1 4- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CH1 5-CH1 0 4 0 0 CH2 5-CH2 0 0 ET DET	6-CH1 7-CH1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8-CH2 0
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	1-CH2 0 DET	2-CH1 3-CH1 4- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CH1 5-CH1 0 4 0 0 CH2 5-CH2 0 0 ET DET	6-CH1 7-CH1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8-CH2 0
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VIDEO OTHER INFORM Mid block schoo	DET DET V DET WATION OR SPEC	2-CH1 3-CH1 4-	CH1 5-CH1 0 0 CH2 5-CH2 0 0 DET DET DET 5 CH2 V DET 5	G-CH1 7-CH1 G-CH2 7-CH2 DET DET V DET 6 V DET 7 ped during non school cross w	8-CH2 0 DET V DET 8
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-SIKESTON	COUNTY NEW MADRID	DESIGNATION TRAV	CROSS STREET US 60 WB RAMP	LOG MILE 323.84800
P TO: WAYNE ROBEY	1111 EDWARDS S		SIKESTON, MO	63801
NTROLLER	CONTROLLI ACTUATED	ER TYPE	CABINET TYPE NEMA/PT STANDARD B	-V
STEM MASTER	DETECTION	TYPE	CABINET DESCRIPTION	
	INDUCTION			
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O PLUG				
A Transport				
	NEMA LOAD SWITCH	ASSIGNMENTS		
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# OF :	STANDARD 2-CHANNEL DET	TECTOR 8		
# of : NEMA	STANDARD 2-CHANNEL DET	TECTOR 8		
NEMA	STANDARD 2-CHANNEL DET DELAY/EXT 2-CHANNEL DE			
NEMA		TECTOR 8	CONFIGURATION	
NEMA	DELAY/EXT 2-CHANNEL DE	TECTOR 8	CONFIGURATION ITH ASSOCIATED PHASE NUMBER	
NEMA	DELAY/EXT 2-CHANNEL DE	TECTOR 8 CARD RACK O	TH ASSOCIATED PHASE NUMBER	8.CH1
NEMA	DELAY/EXT 2-CHANNEL DE	TECTOR 8	TH ASSOCIATED PHASE NUMBER 5-CH1 6-CH1 7-CH1	8-CH1 4 4
NEMA	DELAY/EXT 2-CHANNEL DETERMINED TO SELECTION OF THE PROPERTY OF	CARD RACK C IN POSITIONS NEEDED WI 3-CH1 4-CH1 2 2	TH ASSOCIATED PHASE NUMBER 5-CH1 6-CH1 7-CH1	4 4
NEMA	DELAY/EXT 2-CHANNEL DE	CARD RACK C IN POSITIONS NEEDED WI 3-CH1 4-CH1	5-CH2 6-CH2 7-CH2 5-CH2 7-CH2	4 4
NEMA	DELAY/EXT 2-CHANNEL DE: FILL 1-CH1	CARD RACK C IN POSITIONS NEEDED WI 3-CH1 4-CH1 2 2 3-CH2 4-CH2	5-CH2 6-CH2 7-CH2 5-CH2 7-CH2	4 4 4 Sechia
NEMA	DELAY/EXT 2-CHANNEL DET FILL	CARD RACK C IN POSITIONS NEEDED WI 3-CH1 4-CH1 2 2 2 3-CH2 4-CH2 6 6	5-CH1	4
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DISTRICT 10 - SIKESTON	COUNTY PEMISCOT	DESIGNATION MO	TRAVELWAY	CROSS STREET 13th	LOG MILE 27.70600
SHIP TO: DEWAYNE ROBEY	111 EDWA	RDS ST.		SIKESTON, MO	63801
CONTROLLER TS1 SYSTEM MASTER	CONTR	OLLER TYPE		CABINET TYPE NEMA/PT STANDARD EV CABINET DESCRIPTION	
INTERCONNECT TYPE		TION SYSTEM INTERFACE SYSTEM TYPE		PRE-EMPT	
12-POSITION-TS1 ✓ D PLUG				PRE-EMPT INFORMATION	
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DELAY/EXTEND VIDEO	DET DE	ET 2 V DET 3	DET DET VDET4 VDET5	DET DET V DET 6 V DET 7	DET. V DET 8
OTHER INFORM	IATION OR SPECIAL RI	EQUIREMENTS:			
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ISTRICT	COUNTY	DESIGNATION TRAVELWA	AY CROSS STREET	27.68900
0 - SIKESTON	DUNKLIN	J WO J 25		
HIP TO:				
EWAYNE ROBEY	111 ED	DWARDS ST.	SIKESTON, MO	63801
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YSTEM MASTER	DE1	TECTION TYPE	CABINET DESCRIPTION	
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INSAS CITY	CLAY	DESIGNATION TR US 16	AVELWAY 0	CROSS STREET Seth Ten 95th Ten	LOG MIL 114.554
			S Garrier (1881)		
TO:				LANGAS CORVANO	Tours
DURHAM	9101 EAST	40TH TERRACE	Carlos de la carlos	KANSAS CITY, MO	64133
ROLLER	CONTR	ROLLER TYPE		CABINET TYPE	
ype 1	ACTUA	TED	Ţ	NEMA/PT STANDARD E	
EM MASTER	DETEC	TION TYPE		CABINET DESCRIPTION	
	VIDEO	W/CARD RACK			
RCONNECT TYPE		SYSTEM INTERFACE			
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NEMA	F DELAY/EXT 2-CHANNE	L DETECTOR 0 CARD RACE FILL IN POSITIONS NEEDED	WITH ASSOCIA	TED PHASE NUMBER	1
NEMA	1-CH1 2-CH 1-CH2 2-CH	CARD RAC FILL IN POSITIONS NEEDED 11 3-CH1 4-CH1 0 0 1 1 142 3-CH2 4-CH2	WITH ASSOCIA	6-CH2 7-CH1 6-CH2 7-CH2	0 8-CH2
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NEMA # 0	1-CH1 2-CHANNE 1-CH1 2-CH 1-CH2 2-CH 0 DET DE	CARD RAC FILL IN POSITIONS NEEDED H1 3-CH1 4-CH1 0 0 0 1 1 1 12 3-CH2 4-CH2 0 0 0 1 1 T ODET DET	S-CH1 5-CH2 5-CH2 DET	6-CH1 7-CH1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8-CH2 0
NEMA # 0	F DELAY/EXT 2-CHANNE 1-CH1 2-CH 1-CH2 2-CH 0 DET DE	CARD RAC FILL IN POSITIONS NEEDED H1 3-CH1 4-CH1 0 0 11 H2 3-CH2 4-CH2 0 0 11 T DET DET T DET DET T DET	S-CH1 5-CH2 DET V. DET 5	G-CH1 7-CH1 G-CH2 7-CH2 G-CH2 7-CH2 DET DET V DET 6 V DET 7	8-CH2 0
NEMA # O	1-CH1 2-CHANNE 1-CH1 2-CH 1-CH2 2-CH 0 DET DE	CARD RAC FILL IN POSITIONS NEEDED H1 3-CH1 4-CH1 0 0 11 H2 3-CH2 4-CH2 0 0 11 T DET DET T DET DET T DET	S-CH1 5-CH2 5-CH2 DET	6-CH1 7-CH1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8-CH2 0
NEMA # O	F DELAY/EXT 2-CHANNE 1-CH1 2-CH 1-CH2 2-CH DET DET V DET V DE V DET V DE	CARD RAC FILL IN POSITIONS NEEDED H1 3-CH1 4-CH1 0 0 1 1 H2 3-CH2 4-CH2 0 0 1 1 T DET DET T DET DET T DET DET T DE T DE	S-CH1 5-CH2 DET V. DET 5	G-CH1 7-CH1 G-CH2 7-CH2 G-CH2 7-CH2 DET DET V DET 6 V DET 7	8-CH2 0
NEMA # O	F DELAY/EXT 2-CHANNE 1-CH1 2-CH 1-CH2 2-CH 0 DET DE	CARD RAC FILL IN POSITIONS NEEDED H1 3-CH1 4-CH1 0 0 1 1 H2 3-CH2 4-CH2 0 0 1 1 T DET DET T DET DET T DET DET T DE T DE	S-CH1 5-CH2 DET V. DET 5	G-CH1 7-CH1 G-CH2 7-CH2 G-CH2 7-CH2 DET DET V DET 6 V DET 7	8-CH2 0
NEMA # O	F DELAY/EXT 2-CHANNE 1-CH1 2-CH 1-CH2 2-CH DET DET V DET V DE V DET V DE	CARD RAC FILL IN POSITIONS NEEDED H1 3-CH1 4-CH1 0 0 1 1 H2 3-CH2 4-CH2 0 0 1 1 T DET DET T DET DET T DET DET T DE T DE	S-CH1 5-CH2 DET V. DET 5	G-CH1 7-CH1 G-CH2 7-CH2 G-CH2 7-CH2 DET DET V DET 6 V DET 7	8-CH2 0
NEMA # O	F DELAY/EXT 2-CHANNE 1-CH1 2-CH 1-CH2 2-CH DET DET V DET V DE V DET V DE	CARD RAC FILL IN POSITIONS NEEDED H1 3-CH1 4-CH1 0 0 1 1 H2 3-CH2 4-CH2 0 0 1 1 T DET DET T DET DET T DET DET T DE T DE	S-CH1 5-CH2 DET V. DET 5	G-CH1 7-CH1 G-CH2 7-CH2 G-CH2 7-CH2 DET DET V DET 6 V DET 7	8-CH2 0

RICT	COUNTY	DESIGNATION	TRAVELWAY	CROSS STREET	0.07400
T. LOUIS	ST. LOUIS	MO	370 Missouri Botto	Earth City N.	0.07100
TO:			Rd		
SCHLICHTING		309 A BARRETT STATION ROAD		BALLWIN, MO	63021
TROLLER		CONTROLLER TYPE		CABINET TYPE	
Type2		ACTUATED		NEMA/PT STANDARD EV	
EM MASTER		DETECTION TYPE	14.00 14.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00	CABINET DESCRIPTION	
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OSITION-131				PRE-EMPT INFORMATION	
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# OF] STANDARD 2-1	CHANNEL DETECTOR 3 CHANNEL DETECTOR 0			
# OF] STANDARD 2-1	CHANNEL DETECTOR 3 CHANNEL DETECTOR 0 CARE	O RACK CONFIGURA	ATION	
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# OF	STANDARD 2-6 F DELAY/EXT 2-	CHANNEL DETECTOR 3 CHANNEL DETECTOR 0 CARD FILL IN POSITIONS NEE 2-CH1 3-CH1 4-	O RACK CONFIGURATION TO THE PROPERTY OF THE PR	ATION IATED PHASE NUMBER 6-CH1 7-CH1	8-CH1
# OF] - J	CHANNEL DETECTOR 3 CHANNEL DETECTOR CARE FILL IN POSITIONS NEE	O RACK CONFIGURA	ATION IATED PHASE NUMBER	8-CH1 0
# OF	STANDARD 2-6 F DELAY/EXT 2-	CHANNEL DETECTOR 3 CHANNEL DETECTOR 0 CARD FILL IN POSITIONS NEE 2-CH1 3-CH1 4-	O RACK CONFIGURATION TO THE PROPERTY OF THE PR	ATION IATED PHASE NUMBER 6-CH1 7-CH1	,
# OF	F DELAY/EXT 2-	CHANNEL DETECTOR 3 CHANNEL DETECTOR 0 CARD FILL IN POSITIONS NEE 2-CH1 3-CH1 4-	PRACK CONFIGURATION OF THE PROPERTY OF THE PRO	ATION IATED PHASE NUMBER 6-CH1 7-CH1 0 0 0	0
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# OF	F DELAY/EXT 2- F DELAY/EXT 2- 1-CH1 6 1-CH2 2	CHANNEL DETECTOR 3 CHANNEL DETECTOR 0 CARE FILL IN POSITIONS NEE 2-CH1 3-CH1 4- 2-CH2 3-CH2 4- 2 3-CH2 3-CH2 4- DET DET DET D	PET DET	ATION IATED PHASE NUMBER 6-CH1 7-CH1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8-CH2 0
# OF NEMA # O	F DELAY/EXT 2-	CHANNEL DETECTOR 3 CHANNEL DETECTOR 0 CARE FILL IN POSITIONS NEE 2-CH1 3-CH1 4- 6 3 4- 1 2 3-CH2 4- 2 3-CH2 3-CH2 4-	PRACK CONFIGURATION OF THE PROPERTY OF THE PRO	ATION IATED PHASE NUMBER 6-CH1	3-CH2
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# OF NEMA # OF VIDEO OTHER INFOR	F DELAY/EXT 2- F DELAY/EXT 2- 1-CH1 6 1-CH2 2 V DET V DET	CHANNEL DETECTOR 0 CARD FILL IN POSITIONS NEE 2-CH1 3-CH1 4- 6 33 1 2-CH2 3-CH2 4- 2 3-CH2 4- 1 2 3 1 DET DET DET D V DET 2 V DET 3 V I	ORACK CONFIGURA EDED WITH ASSOC GH1 5-CH1 0 5-CH2 0 0 DET DET DET DET DET 4 V DET 5	ATION IATED PHASE NUMBER 6-CH1 7-CH1 0 0 0 0-CH2 7-CH2 0 0 0	3-CH2 0

TRICT ST. LOUIS	JEFFERSON JEFFERSON	DESIGNATION MO	TRAVELWAY 141	CROSS STREET Astraway	LOG MILE 19.61700
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P TO:	1220	O A BARDETT CTATION DOAD		BALLWIN, MO	63021
L SCHLICHTING	[230	9 A BARRETT STATION ROAD		BALLWIN, MO	103021
NTROLLER	urikan di Piangangan 🖺	CONTROLLER TYPE		CABINET TYPE	
/Type2		ACTUATED		NEMA/PT STANDARD EV	
TEM MASTER		DETECTION TYPE		CABINET DESCRIPTION	*
	The state of the s	INDUCTION			
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CKPANEL POSITION-TS1	ľ				
FOOTHOW-TOT				PRE-EMPT INFORMATION	
PLUG	1				
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NEMA	TANDARD 2-CH DELAY/EXT 2-Ch 1-CH1 1	ANNEL DETECTOR 7 HANNEL DETECTOR 4 CARD FILL IN POSITIONS NEE 2-CH1 3-CH1 4-C 6 6 6	DED WITH ASSOCIA CH1	6-CH1 7-CH1 3 7-CH2 7-CH2	8-GH2
NEMA # OF D	TANDARD 2-CH 1-CH1 1-CH2 5	ANNEL DETECTOR 7 HANNEL DETECTOR 4 CARD FILL IN POSITIONS NEE 2-CH1 3-CH1 4-C 6 6 6 2-CH2 3-CH2 4-C 2 2 1	EDED WITH ASSOCIA CH1 5-CH1 6 6 CH2 5-CH2 2 2 ET DET V	6-CH1 7-CH1 3 3 3 6-CH2 7-CH2 4 1 4 1 4 1	8-CH2 0
NEMA # OF D	TANDARD 2-CH DELAY/EXT 2-CH 1-CH1 1-CH2 5 DET V DET	ANNEL DETECTOR 7 HANNEL DETECTOR 4 CARD FILL IN POSITIONS NEE 2-CH1 3-CH1 4-C 6 6 6 2-CH2 3-CH2 4-C 2 2 2 DET DET DET DET V DET 2 V DET 3 V E	EDED WITH ASSOCIA CH1 6 5-CH1 6 CH2 2 DET DET V DET 5	6-CH1 7-CH1 3 3 7-CH2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8-CH2 0 DET V DET 8
NEMA # OF D	TANDARD 2-CH 1-CH1 1-CH2 5	ANNEL DETECTOR 7 HANNEL DETECTOR 4 CARD FILL IN POSITIONS NEE 2-CH1 3-CH1 4-C 6 6 6 2-CH2 3-CH2 4-C 2 2 2 DET DET DET DET V DET 2 V DET 3 V E	EDED WITH ASSOCIA CH1 5-CH1 6 6 CH2 5-CH2 2 2 ET DET V	6-CH1 7-CH1 3 3 3 6-CH2 7-CH2 4 1 4 1 4 1	8-CH2 0
NEMA # OF D DELAY/EXTEND VIDEO	TANDARD 2-CH 1-CH1 1-CH2 5 DET V DET	ANNEL DETECTOR 7 HANNEL DETECTOR 4 CARD FILL IN POSITIONS NEE 2-CH1 3-CH1 4-C 6 6 6 2-CH2 3-CH2 4-C 2 2 2 DET DET DET DET V DET 2 V DET 3 V E	EDED WITH ASSOCIA CH1 6 5-CH1 6 CH2 2 DET DET V DET 5	6-CH1 7-CH1 3 3 7-CH2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8-CH2 0
WEMA # OF D DELAY/EXTEND VIDEO	TANDARD 2-CH 1-CH1 1-CH2 5 DET V DET	ANNEL DETECTOR 7 HANNEL DETECTOR 4 CARD FILL IN POSITIONS NEE 2-CH1 3-CH1 4-C 6 6 6 2-CH2 3-CH2 4-C 2 2 2 DET DET DET D V DET 2 V DET 3 V D	EDED WITH ASSOCIA CH1 6 5-CH1 6 CH2 2 DET DET V DET 5	6-CH1 7-CH1 3 3 7-CH2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8-CH2 0
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NEMA # OF D DELAY/EXTEND VIDEO	TANDARD 2-CH 1-CH1 1-CH2 5 DET V DET	ANNEL DETECTOR 7 HANNEL DETECTOR 4 CARD FILL IN POSITIONS NEE 2-CH1 3-CH1 4-C 6 6 6 2-CH2 3-CH2 4-C 2 2 2 DET DET DET D V DET 2 V DET 3 V D	EDED WITH ASSOCIA CH1 6 5-CH1 6 CH2 2 DET DET V DET 5	6-CH1 7-CH1 3 3 7-CH2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8-CH2 0 DET V DET 8

DISTRICT 6 - ST. LOUIS	COUNTY ST. LOUIS	DESIGNATION TRAVELWAY MO 100	CROSS STREET West Co. EMS Engine House Manchester Fire	LOG MILE 104.86000
SHIP TO: NEIL SCHLICHTING	23	09 A BARRETT STATION ROAD	BALLWIN, MO	63021
CONTROLLER TS2/Type2		CONTROLLER TYPE	CABINET TYPE OTHER (AS SPECIFIED)	
SYSTEM MASTER		DETECTION TYPE	CABINET DESCRIPTION	
INTERCONNECT TYPE		VIDEO SYSTEM INTERFACE	Standard NEMA D size	
BACKPANEL		VIDEO SYSTEM TYPE	PRE-EMPT	
8-POSITION-TS1			PRE-EMPT INFORMATION	
D PLUG			Push button input activates pre-	empt.
				gridera Zijana opračnja sa koj
	NEMA LOA	AD SWITCH ASSIGNMENTS		
1 2 3 4	5	6 7 8 9 10 11	12 EXCLUSIVE P	ED PHASE
	O Fig.			
# OF ST NEMA	ANDARD 2-C	HANNEL DETECTOR 0		
#OF D	ELAY/EXT 2-C	HANNEL DETECTOR 0		
		CARD RACK CONFIGURED FILL IN POSITIONS NEEDED WITH ASSO		
	1-CH1	2-CH1 3-CH1 4-CH1 5-CH1 0	6-CH1 7-CH1 0 0	8-CH1 0
	1-CH2	2-GH2 3-CH2 4-CH2 5-CH2 0 0	2 6-CH2 7-CH2 0 0	8-CH2 0
DELAY/EXTEND	DET	DET DET DET DET	DET DET	DET
VIDEO	V DET	V DET 2 V DET 3 V DET 4 V DET	5 V DET 6 V DET 7	V DET 8
OTHER INFORMA	ITION OR SPE	CIAL REQUIREMENTS:		
This cabinet is for	an exclusive fir	e station signal. PH 1 to flash in green. PH 2 - no ye	ellow indications. Pre-empt input par	nel needed.
Go To Next Reco	ord D	Go to Previous Record	New Record ** Close	e File
OU TO NEXT RECO	// /	Add a	TIEN RECOID F 7	

DISTRICT 3 - ST. LOUIS	COUNTY ST. LOUIS	DESIGNATION IS	TRAVELWAY 55	CROSS STREET Bayless W. End	LOG MILE 8.70500
SHIP TO: NEIL SCHLICHTING	23	309 A BARRETT STATION ROAD		BALLWIN, MO	63021
CONTROLLER TS2/Type2 SYSTEM MASTER		CONTROLLER TYPE ACTUATED DETECTION TYPE		CABINET TYPE NEMA/PT STANDARD EV CABINET DESCRIPTION	
NTERCONNECT TYPE		VIDEO SYSTEM INTERFACE			
7-WIRE LOCAL BACKPANEL 12-POSITION-TS1		VIDEO SYSTEM TYPE		PRE-EMPT	
] D PLUG				PRE-EMPT INFORMATION	
	NEMA LO	AD SWITCH ASSIGNMENTS			
# OF S		CHANNEL DETECTOR 0	O RACK CONFIGURA	ATION	
	1-CH1 0 1-CH2 0	0 0 0	CH1 5-CH1 0 CH2 5-CH2 0	6-CH1 7-CH1 0 0 7-CH2 7-CH2 0	8-CH1 0 3-GH2 0
DELAY/EXTEND	DET U		ET DET	DET DET	DET
OTHER INFORM		ECIAL REQUIREMENTS;			
Go To Next Rec	cord •	Go to Previous Record	▲ Add a N	ew Record	se File

. LOUIS	ST. LOUIS	DESIGNATION RT	N TRAVELWAY	CROSS STREET Dunn Road	LOG MILE 1.19100
TO: SCHLICHTING		ARRETT STATION ROAD		BALLWIN, MO	63021
		ROLLER TYPE	The state of the s	CABINET TYPE	
ROLLER ype2	ACTU/			OTHER (AS SPECIFIED)	
EM MASTER		CTION TYPE		CABINET DESCRIPTION	
	<u>Г</u>			POLE MOUNT D-SIZE	
CONNECT TYPE	VIDEO	SYSTEM INTERFACE			
	VIDEC	SYSTEM TYPE		PRE-EMPT	
(PANEL DSITION-TS1	VIDEO	AND THE WILLIAM TO THE STATE OF	Company of the Compan		
				PRE-EMPT INFORMATION	
PLUG		nata a cara da			
					Mark Services
	NEMA LOAD SWI	ITCH ASSIGNMENTS			
2 3 4 1 2 3 4	5 6 6	7 8 9 0 0	فتنسف فيتنا فتنتف والمناب	12 EXCLUSIVE	PED PHASE
	ANDARD 2-CHANNE	L DETECTOR : 0			
NEMA #OFB	ELAY/EXT 2-CHANNE	UDETECTOR 0		ger for the day of the control of th	
#010	LEATTENT 2-SHANNE	L DITECTOR			
		CA	RD RACK CONFIGUR		7
		FILL IN POSITIONS N	IEEDED WITH ASSOC	IATED PHASE NUMBER	
	1-CH1 2-C	H1 3-CH1	4-CH1 5-CH1	6-CH1 7-CH1	8-CH1
	1-CH1 2-C				8-CH1 0)
	1-CH2 2-C	H1 3-CH1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4-CH1 5-CH1 0 0 0 4-CH2 5-CH2	6-CH1 7-CH1 0 0 0 6-CH2 7-CH2	0 8-CH2
	0	H1 3-GH1 0	4-CH1 5-CH1 0	6-CH1 7-CH1 0 0 0 6-CH2 7-CH2	0
DELAYIEXTEND	1-CH2 2-C	H1 3-GH1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4-CH1 5-CH1 0 0 0 4-CH2 5-CH2	6-CH1 7-CH1 0 0 0 6-CH2 7-CH2	8-CH2
DELAY/EXTEND	1-GH2 2-C	H1 3-GH1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4-CH1 5-CH1 0 0 0 4-CH2 5-CH2 0	6-CH1 7-CH1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8-CH2 0
	1.CH2 2-C 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	H1 3-CH1 0 3-CH2 0 0 0 0	4-CH1 5-CH1 0 0 0 4-CH2 5-CH2 0	6-CH1 7-CH1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8-GH2 0 DET
DELAY/EXTEND	1.CH2 2-C 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	H1 3-CH1 0 3-CH2 0 0 0 0	4-CH1 5-CH1 0 0 0 4-CH2 5-CH2 0 0 0 DET DET	6-CH1 7-CH1	8-CH2 0
VIDEO	1-GH2 2-C 2-C 0 DET DE C	H1 3-CH1 0 3-CH2 0 0 0 0	4-CH1 5-CH1 0 0 4-CH2 5-CH2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6-CH1 7-CH1	8-GH2 0 DET
VIDEO OTHER INFORMA	1.GH2 2-C 0 DET DE V DET V D ()	H1 3-CH1 0 3-CH2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4-CH1 5-CH1 0 0 4-CH2 5-CH2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6-CH1 7-CH1	8-GH2 0 DET
VIDEO OTHER INFORMA	1-CH2 2-C 0 DET DE V DET V D CATION OR SPECIAL R	H1 3-CH1 0 3-CH2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4-CH1 5-CH1 0 0 4-CH2 5-CH2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6-CH1 7-CH1	8-GH2 0 DET
VIDEO OTHER INFORMA	1.GH2 2-C 1.GH2 2-C 0 0	H1 3-CH1 0 3-CH2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4-CH1 5-CH1 0 0 0 4-CH2 5-CH2 0 0 0 DET DET 0 0 V DET 4 V DET 5	6-CH1 7-CH1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8-GH2 0 DET

HIP TO:	TRAVELWAY	CROSS STREET NOR/Central	LOG MILE -0.72400
STEM MASTER			4.023
# OF STANDARD 2-CHANNEL DETECTOR		BALLWIN, MO	63021
# OF STANDARD 2-CHANNEL DETECTOR			
TEM MASTER		CABINET TYPE NEMA/PT STANDARD E	
INDUCTION AND VIDEO		CABINET DESCRIPTION	an a shired and a section of the sec
VIDEO SYSTEM INTERFACE SDLC PORT VIDEO SYSTEM TYPE			
# OF STANDARD 2-CHANNEL DETECTOR			
Autoscope Solo Mini Hub. Autoscope Camera.		<u> </u>	<u> </u>
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NEMA LOAD SWITCH ASSIGNMENTS 1	e li vii	-] PRE-EMPT INFORMATIO)N
NEMA LOAD SWITCH ASSIGNMENTS 1			
# OF STANDARD 2-CHANNEL DETECTOR 3 # OF DELAY/EXT 2-CHANNEL DETECTOR 0 1-CH1			
# OF STANDARD 2-CHANNEL DETECTOR 3 # OF DELAY/EXT 2-CHANNEL DETECTOR 0 1-CH1			
# OF STANDARD 2-CHANNEL DETECTOR 3 # OF DELAY/EXT 2-CHANNEL DETECTOR 0 1-CH1	2007 2007 2007 2007		70
# OF STANDARD 2-CHANNEL DETECTOR 3 NEMA # OF DELAY/EXT 2-CHANNEL DETECTOR 0 CARD RACE FILL IN POSITIONS NEEDED 1-CH2 2-CH1 3-CH1 4-CH1 1 6 0 0 0 0 0 0 0 0 0			**() () () () () () () () () (
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1-CH2 2-CH2 3-CH2 4-CH2 5 2 0 0 DELAY/EXTEND DET DET DET V DET V DET 2 V DET 3 V DET 4 VIDEO	ED WITH ASSOC	ATED PHASE NUMBER	
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V DET V DET 2 V DET 3 V DET 4 VIDEO		DET DET	DET
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VVII.C LO 7 α 0 αδ OLA-D. VVIIIC LO 9-12 αδ FeU 2, 3, 4, 0.			
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Go To Next Record Go to Previous Record	4 Add a N	ew Record	Close File

DISTRICT:	COUNTY ST. LOUIS	DESIGNATION TRAVELWAY MO 370	CROSS STREET Earth City S:	LOG MILE 9.33300
SHIP TO: NEIL SCHLICHTING	23	09 A BARRETT STATION ROAD	BALLWIN, MO	63021
CONTROLLER		CONTROLLER TYPE	CABINET TYPE	
TS2/Type2 SYSTEM MASTER		DETECTION TYPE	NEMA/PT STANDARD EV CABINET DESCRIPTION	
INTERCONNECT TYPE 7-WIRE LOCAL		INDUCTION VIDEO SYSTEM INTERFACE	The state of the s	
BACKPANEL 12-POSITION-TS1		VIDEO SYSTEM TYPE	PRE-EMPT	
J D PLUG			PRE-EMPT INFORMATION	
1: 2 3 4	NEMA LOA	AD SWITCH ASSIGNMENTS 6 7 8 9 10 11	12 EXCLUSIVE	PED PHASE
1 2 3	0 0	6 0 0 0 0 0 0		
# OF S NEMA	TANDARD 2-C	HANNEL DETECTOR 5		
	DELAY/EXT 2-C	HANNEL DETECTOR 0		
		CARD RACK CONFIGURA FILL IN POSITIONS NEEDED WITH ASSOCIA		
	1-CH1	2-CH1 3-CH1 4-CH1 5-CH1 3	6-CH1 7-CH1 0	8-CH1 0
	1-CH2	2-CH2 3-CH2 4-CH2 5-CH2 2 3	6-CH2 7-CH2 0	8-CH2
DELAY/EXTEND	DET	DET DET DET	DET DET	DET
VIDEO	V DET	VDET2 VDET3 VDET4 VDET5	V DET 6 V DET 7	V DET 8 □
OTHER INFORM	IATION OR SPE	CIAL REQUIREMENTS:		
Wire LS 9 for OL	A. Wire LS 10-	12 for Ped 2, 3, 6.		
Go To Next Rec	ord •	Go to Previous Record Add a Ne	w Record	se File 14

- ST. LOUIS	ST. LOUIS	DESIGNATION OR	TRAVELWAY 270	CROSS STREET WOR/Clayton	LOG MILE 8.06000
	In TMS	(2008) 15-15 (1908) in marketing the control of the control \$17.50 are republic to the control of the control of \$1	HH	I-270 WOR	
HIP TO: EIL SCHLICHTING	 : [2:	309 A BARRETT STATION ROAD		BALLWIN, MO	63021
10 C					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ONTROLLER S2/Type2	1	ACTUATED		CABINET TYPE NEMA/PT STANDARD EV	
STEM MASTER		DETECTION TYPE		CABINET DESCRIPTION	
	J				
TERCONNECT TYPE		VIDEO SYSTEM INTERFACE			
				I PRE-EMPT	
ACKPANEL	.	VIDEO SYSTEM TYPE	Nicolation Addition to Control to		
6-POSITION-TS1				PRE-EMPT INFORMATION	
D PLUG					
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	NEMA LO	AD SWITCH ASSIGNMENTS			
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NEMA		CHANNEL DETECTOR 0			
NEMA				ATION	
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NEMA #OF	DELAY/EXT 2-0	CAF FILL IN POSITIONS N	RD RACK CONFIGUR SEDED WITH ASSOC	DIATED PHASE NUMBER	8-CH1
NEMA		CAF FILL IN POSITIONS N	RD RACK CONFIGUR	CIATED PHASE NUMBER	8-CH1 0
NEMA #OF	DELAY/EXT 2-0	FILL IN POSITIONS N	RD RACK CONFIGUR EEDED WITH ASSOC 4-CH1 5-CH1 0	6-CH1 7-CH1	0
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NEMA #OF	1-CH1 0 1-CH2 0	2-CH1 3-CH1 2-CH2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RD RACK CONFIGUR EEDED WITH ASSOC 4-CH1 5-CH1 0 0 4-CH2 5-CH2	6-CH1 7-CH1 0 6-CH2 7-CH2	0 8-CH2
NEMA #OF	DELAY/EXT 2-0 1-CH1 1-CH2 1-CH2 DET	CAF FILL IN POSITIONS NE 2-CH1 3-CH1 0 0 0 0 0 0 0 0 0	RD RACK CONFIGUR EEDED WITH ASSOC 4-CH1 5-CH1 0 0 5-CH2 0 0 0 DET DET	6-CH1 7-CH1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8-CH2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
NEMA #OF	1-CH1 0 1-CH2 0	CAF FILL IN POSITIONS NE 2-CH1 3-CH1 0 0 0 0 0 0 0 0 0	RD RACK CONFIGUR EEDED WITH ASSOC 4-CH1 5-CH1 0 0 4-CH2 5-CH2 0 0 DET DET	6-CH1 7-CH1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8-CH2
NEMA #OF	DELAY/EXT 2-0 1-CH1 1-CH2 1-CH2 DET	CAF FILL IN POSITIONS NE 2-CH1 3-CH1 0 0 0 0 0 0 0 0 0	RD RACK CONFIGUR EEDED WITH ASSOC 4-CH1 5-CH1 0 0 5-CH2 0 0 0 DET DET	6-CH1 7-CH1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8-CH2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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WEMA #OF #OF VIDEO OTHER INFORM	DELAY/EXT 2-0 1-CH1 1-CH2 0 DET V DET	FILL IN POSITIONS NE 2-CH1 3-CH1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RD RACK CONFIGUR EEDED WITH ASSOC 4-CH1 5-CH1 0 0 5-CH2 0 0 0 DET DET	6-CH1 7-CH1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8-CH2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

NEMA TS1/TS2 Traffic Signal Controller Order Form DISTRICT COUNTY DESIGNATION TRAVELWAY CROSS STREET LOG M G-ST. LOUIS JEFFERSON US 61 Amold Tembrook 181.80

DISTRICT 5 - ST. LOUIS	COUNTY JEFFERSON	DESIGNATION US	TRAVELWAY	CROSS STREET Arnold Tennbrook	LOG MILE 181.80700
HIP TO: EIL SCHLICHTING	2309	9 A BARRETT STATION ROAD		BALLWIN, MO	63021
ONTROLLER		ONTROLLER TYPE		CABINET TYPE	
S2/Type2		ACTUATED		NEMA/PT STANDARD EV	************
YSTEM MASTER	ָ ס	DETECTION TYPE		CABINET DESCRIPTION	
]	NDUCTION			No.
TERCONNECT TYPE	۷ سو	IDEO SYSTEM INTERFACE			
		VIDEO SYSTEM TYPE		PRE-EMPT	
ACKPANEL 2-POSITION-TS1		ADEC STOTIC THEE			100
				PRE-EMPT INFORMATION	
D PLUG					
	NEMA LOAD	SWITCH ASSIGNMENTS			
1 2 3 4 1 2 0	5 6 4 0	7 8 9 6 0 8		12 EXCLUSIVE	PED PHASE
					i di garanta di Salah
NEMA # OF I	DELAY/EXT 2-GH	· .	RD RACK CONFIGURA	ATION IATED PHASE NUMBER	
)
	1-CH1	2-CH1 3-CH1 0	4-CH1 5-CH1 0 4	6-CH1 7-CH1 0	8-CH1 0
	1-CH2		4-CH2 5-CH2	6-CH2 7-CH2	J 8-CH2
	5	0 0	0 8	8 0	0
DELAY/EXTEND] DET	DET DET	DET DET	DET DET	DET :[]
			VDET VDETE	V DET 6 V DET 7	V DET 8
VIDEO	V DET	V DET 2 V DET 3	V DET 4 / V DET 5		V DET 0
No. of the Control of	T4 - 100 13 V4 - 100 13 4	IAL REQUIREMENTS:			
LS 9-10 WIRED	FOR OLA-B; LS 1	1-12 WIRED FOR PED 2,4.			
minora de la companya del companya de la companya del companya de la companya del la companya de	Company		A STATE OF THE STA		State of the state
Go To Next Rec	ord	Go to Previous Record	d Add a No	ew Record ▶* Clo	se File 🏻 🎝
					L.

DISTRICT	COUNTY	DESIGNATION TRAVELWAY	CROSS STREET	LOG MILE 182.54500
6 - ST. LOUIS	JEFFERSON	JUS ii 61	Church/E.Church	T182.34300
SHIP TO:				
NEIL SCHLICHTING	2309 A	BARRETT STATION ROAD	BALLWIN, MO	63021
CONTROLLER	col	NTROLLER TYPE	CABINET TYPE	
TS2/Type2			NEMA/PT STANDARD EV	
SYSTEM MASTER	DE	TECTION TYPE	CABINET DESCRIPTION	
	IND	DUCTION		
INTERCONNECT TYPE		EO SYSTEM INTERFACE		
BACKPANEL	VIC	DEO SYSTEM TYPE	PRE-EMPT	
16-POSITION-TS1	Test sik in di		FIRE STATION PRE-EMPT	alignation of the second of th
			PRE-EMPT INFORMATION	
✓ D PLUG			HARDWIRED	
	NEMA LOAD S	WITCH ASSIGNMENTS		
1 2 3 4	5 6	7 8 9 10 111	12 EXCLUSIVE	PED PHASE
1 2 0	4 5	6 0 8 0 0 11	12	77.75 32.752.7844
tion of the state of				
NEMA	STANDARD 2-CHAN DELAY/EXT 2-CHAN			
	i i i i i i i i i i i i i i i i i i i		TON	1
		CARD RACK CONFIGURAT		
	1-CH1 :	2-CH1 3-CH1 4-CH1 5-CH1	6-CH1 7-CH1	8-CH1
	1	6 6 6 6 6 6 6 6 6	8 0	0
	1-CH2	2-CH2 3-CH2 4-CH2 5-CH2	6-CH2 7-CH2	8-CH2
	5	2 2 7	4 0	0
DELAY/EXTEND		DET DET DET DET	DET DET	DET
VIDEO	V DET \	V DET 2 V DET 3 V DET 4 V DET 5	V DET 6 V DET 7	V DET 8
LAIDEO	J. D.			
OTHER INFORM	MATION OR SPECIA	L REQUIREMENTS:		
		AL INDICATIONS; LS 11-MAINLINE, GREEN TO FL 6 WIRED FOR PED 2.4.6; NO CARDS FOR POS 2,3		W INDICATION; LS
Active was an analysis distribution of the second				
Go To Next Re	cord	Go to Previous Record Add a Nev	w Record ▶* Clo	se File

DISTRICT	COUNTY	DESIGNATION	TRAVELWAY	CROSS STRE	ET	LOG MILE
- ST. LOUIS	ST, CHARLE	S PRT	М	Route P		0.00000
HIP TO:						
EIL SCHLICHTING	2:	309 A BARRETT STATION ROAD		BALLWIN, MO		63021
ONTROLLER		CONTROLLER TYPE		CABINET TYPE		
S2/Type2	I .	ACTUATED		NEMA/PT STAN	DARD EV	
YSTEM MASTER		DETECTION TYPE		CABINET DESC	RIPTION	e de la companya de
VTERCONNECT TYPE		VIDEO SYSTEM INTERFACE				
	The second second			PRE-EMPT		
BACKPANEL		VIDEO SYSTEM TYPE				
16-POSITION-TS1				PRE-EMPT INFO	DRMATION	
] D PLUG		with the second	<u></u>			
D1 200						
	NEWA LO	AD SWITCH ASSIGNMENTS				100 Telephone (1997)
	300 C 100 B 500		10 11	12 🗆	EXCLUSIVE P	ED DUASE
1 2 3 4 1 2 3	5 4 0		0 0 0		EACLUSIVE F	LD FINASL
	1					
# OF	STANDARD 2-0	CHANNEL DETECTOR 0			486	
NEMA			PAR SESTA Markova		1522	
# OF	DELAY/EXT 2-0	CHANNEL DETECTOR 0				
				- 1011		
		CARD FILL IN POSITIONS NEE	RACK CONFIGURA		IMPED	
		FILL IN POSITIONS NEE	DED WITH ASSOCIA	ATED PHASE NO	INDER	
	1-CH1		CH1 5-CH1	6-CH1	7-CH1	8-CH1
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	1-CH2	2-CH2 3-CH2 4-0	CH2 5-CH2	6-CH2	7-CH2	8-CH2
	0	0 0	0 0	0	0	0
	— DET	DET DET D	ET DET	DET	DET	DET
DELAY/EXTEN						
		-				
VIDEO	V DET ☐		DET 4 V DET 5	V DET 6	V.DET 7	V DET 8
	7 U				, U	
OTHER INFOR	MATION OR SP	ECIAL REQUIREMENTS:				
		Wire LS 13-16 for OLA-D.				
	, 1919.		10 (10 (10 (10 (10 (10 (10 (10 (10 (10 (
	3 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	1				
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NEMA TS1/TS2 Traffic Signal Controller Order Form LOG MILE **CROSS STREET** DISTRICT COUNTY DESIGNATION **TRAVELWAY** 4.77000 6 - ST. LOUIS ST. LOUIS Bermuda-St. Ann SHIP TO: BALLWIN, MO 63021 2309 A BARRETT STATION ROAD NEIL SCHLICHTING CONTROLLER **CONTROLLER TYPE** CABINET TYPE ACTUATED NEMA/PT STANDARD EV TS2/Type2 SYSTEM MASTER **DETECTION TYPE** CABINET DESCRIPTION INTERCONNECT TYPE VIDEO SYSTEM INTERFACE PRE-EMPT VIDEO SYSTEM TYPE BACKPANEL 12-POSITION-TS1 PRE-EMPT INFORMATION D PLUG NEMA LOAD SWITCH ASSIGNMENTS **✓** EXCLUSIVE PED PHASE # OF STANDARD 2-CHANNEL DETECTOR NEMA # OF DELAY/EXT 2-CHANNEL DETECTOR CARD RACK CONFIGURATION FILL IN POSITIONS NEEDED WITH ASSOCIATED PHASE NUMBER 1-CH1 2-CH1 3-CH1 4-CH1 5-CH1 6-CH1 7-CH1 8-CH1 1-CH2 2-CH2 3-CH2 6-CH2 7-CH2 8-CH2 4-CH2 5-CH2 0 0 0 DET DET DET DET DET DET DET DET **DELAY/EXTEND** П V DET V DET 2 V DET 3 V DET 4 V DET 5 V DET 6 V DET 7 V DET 8 **VIDEO** OTHER INFORMATION OR SPECIAL REQUIREMENTS: Wire LS 8 as ext Ped movement. Wire LS 9-10 as OLA-B. Wire LS 11-12 as Ped 2, 6.

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-ST. LOUIS	COUNTY	DESIGNATION TRAVELWAY	CROSS STREET	LOG MILE
	ST. CHARLE	S MO 94	370 S. End Rowte 94 @ 3705E	36.05700 114.240
HIP TO:				
EIL SCHLICHTING]2:	309 A BARRETT STATION ROAD	BALLWIN, MO	63021
ONTROLLER		CONTROLLER TYPE	CABINET TYPE	
S2/Type2		ACTUATED	NEMA/PT STANDARD EV	
YSTEM MASTER	7	DETECTION TYPE	CABINET DESCRIPTION	
ITERCONNECT TYPE		INDUCTION VIDEO SYSTEM INTERFACE		
7-WIRE LOCAL	7	VIDEO STOTIM INTERVACE		
		VIDEO SYSTEM TYPE	PRE-EMPT	
BACKPANEL 12-POSITION-TS1	7			
			PRE-EMPT INFORMATION	
] D PLUG				
			Section 2	
	NEMA LO	OAD SWITCH ASSIGNMENTS		
1 2 3 4	5	6 7 8 9 10 11	12 EXCLUSIVE P	ED PHASE
1 2 3	0 0	6 0 0 0 0 0	$D egin{bmatrix} O \ D \end{bmatrix}$	
# OF 5	STANDARD 2-(CHANNEL DETECTOR 4		
NEMA				The second second second
		استششت		referencia professione
# O F	DELAY/EXT 2-0	CHANNEL DETECTOR 0		
#OF	DELAY/EXT 2-		ATION	
# OF	DELAY/EXT 2-	CHANNEL DETECTOR 0 CARD RACK CONFIGURA FILL IN POSITIONS NEEDED WITH ASSOC		
# OF		CARD RACK CONFIGURA FILL IN POSITIONS NEEDED WITH ASSOC	IATED PHASE NUMBER	O CH4
# OF	1-CH1	CARD RACK CONFIGURA		8-CH1 0
#OF	1-CH1	CARD RACK CONFIGURATIONS NEEDED WITH ASSOC 2-CH1 3-CH1 4-CH1 5-CH1 3-CH1	6-CH1 7-CH1	0
#OF		CARD RACK CONFIGURA FILL IN POSITIONS NEEDED WITH ASSOC 2-CH1 3-CH1 4-CH1 5-CH1	6-CH1 7-CH1	general community ()
#OF	1-CH1	CARD RACK CONFIGURA FILL IN POSITIONS NEEDED WITH ASSOC 2-CH1	6-CH1 7-CH1 0 6-CH2 7-CH2	0 8-CH2
# OF	1-CH1 1 1 1-GH2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CARD RACK CONFIGURA FILL IN POSITIONS NEEDED WITH ASSOC 2-CH1	6-CH2 7-CH2 0 DET DET	8-CH2 0
	1-CH1 1 1 1-GH2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CARD RACK CONFIGURA FILL IN POSITIONS NEEDED WITH ASSOC 2-CH1	6-CH1 7-CH1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8-CH2
DELAY/EXTEND	1-CH1 1 1-EH2 1 1	CARD RACK CONFIGURA FILL IN POSITIONS NEEDED WITH ASSOC 2-CH1	6-CH1 7-CH1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8-CH2 0 DET
	1-CH1 1 1-CH2 1-CH2	CARD RACK CONFIGURA FILL IN POSITIONS NEEDED WITH ASSOC 2-CH1	6-CH1 7-CH1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8-CH2 0
DELAY/EXTEND	1-CH1 1 1-CH2 1-CH2 1-CH2 1-CH2 1-CH2 1-CH2 1-CH2 1-CH2 1-CH1 1-CH1	CARD RACK CONFIGURA FILL IN POSITIONS NEEDED WITH ASSOC 2-CH1	6-CH1 7-CH1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8-CH2 0 DET
DELAY/EXTEND VIDEO OTHER INFORM	1-CH1 1 1 1-CH2 1 1 1 V DET V DET	CARD RACK CONFIGURA FILL IN POSITIONS NEEDED WITH ASSOC 2-CH1	6-CH1 7-CH1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8-CH2 0 DET
DELAY/EXTEND VIDEO OTHER INFORM	1-CH1 1 1 1-CH2 1 1 1 V DET V DET	CARD RACK CONFIGURA FILL IN POSITIONS NEEDED WITH ASSOC 2-CH1	6-CH1 7-CH1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8-CH2 0 DET
DELAY/EXTEND VIDEO OTHER INFORM	1-CH1 1 1-CH2 1-CH2 1 V DET WATION OR SPI	CARD RACK CONFIGURA FILL IN POSITIONS NEEDED WITH ASSOC 2-CH1	6-CH1 7-CH1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8-CH2 0 DET

DISTRICT 6 - ST. LOUIS	COUNTY ST. CHARLES	DESIGNATION MO	TRAVELWAY 94	CROSS STREET 370 N. End Route 94@370NE	LOG MILE 36.25600
SHIP TO: NEIL SCHLICHTING	23	09 A BARRETT STATION ROAD		BALLWIN, MO	63021
CONTROLLER TS2/Type2 SYSTEM MASTER		CONTROLLER TYPE ACTUATED DETECTION TYPE		CABINET TYPE NEMA/PT STANDARD EV CABINET DESCRIPTION	
INTERCONNECT TYPE 7-WIRE MASTER		INDUCTION VIDEO SYSTEM INTERFACE		PRE-EMPT	
BACKPANEL 12-POSITION-TS1 D PLUG		VIDEO SYSTEM TYPE		PRE-EMPT INFORMATION	
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DELAY/EXTEND VIDEO	DET	V DET 2 V DET 3 V D	T DET	DET DET V DET 6 V DET 7	DET
		CIAL REQUIREMENTS: 2 as Ped 2, 3, 6.			
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- ST. LOUIS	ST. CHARLES	DESIGNATION MO	TRAVELWAY 94	CROSS STREE	with the same with the party of the same of the party of the	LOG MILE - 36.29800+
			De la companya da la			114.560
HIP TO: EIL SCHLICHTING	2309 A BAF	RETT STATION ROAD		BALLWIN, MO	1	63021
ONTROLLER S2/Type2 YSTEM MASTER	ACTUA	OLLER TYPE TED TION TYPE	je i jedna j	CABINET TYPE NEMA/PT STAND CABINET DESCR	and the second s	
ITERCONNECT TYPE 7-WIRE LOCAL	INDUCT VIDEO:	TON SYSTEM INTERFACE				
BACKPANEL 12-POSITION-TS1	VIDEO	SYSTEM TYPE	<u> </u>	PRE-EMPT		
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	NEMA LOAD SWI	TCH ASSIGNMENTS				
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DELAY/EXTEND	1-CH2 2-CH	3-CH1 4-0 6 6 6 4-0 12 3-CH2 4-0	CH1 5-CH1 3	6-CH1 3 6-CH2	7-CH1 0 7-CH2	0 8-CH2
DELAY/EXTEND	1-CH2 2-CH 5 DET DET	3-CH1 4-6 2 2 3-CH2 2 4-6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	CH1 5-CH1 3 2 CH2 5-CH2	6-CH1 3 6-CH2 4	7-CH1	8-CH2 6
VIDEO	1-GH2 2-CH 5 DET DET V DET V DE	3-CH1	CH1 5-CH1 3 CH2 2 5-CH2 4 DET DET DET DET DET DET STEEL STEE	6-CH1 3 6-CH2 4	7-CH1	8-CH2 0 DET V DET 8
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DISTRICT COUNTY	DESIGNATION	TRAVELWAY	CROSS STREET	LOG MILE 2:24000
6 - ST, LOUIS ST. LOU	is Jus- RT	AC.	New Castle	[2.24000]
SHIP TO: NEIL SCHLICHTING	2309 A BARRETT STATION ROAD		BALLWIN, MO	63021
CONTROLLER	CONTROLLER TYPE		CABINET TYPE	
TS2/Type2	ACTUATED		NEMA/PT STANDARD EV	
SYSTEM MASTER	DETECTION TYPE INDUCTION		CABINET DESCRIPTION	
INTERCONNECT TYPE	VIDEO SYSTEM INTERFACE	Tree Tree of the Control of the Cont		
			PRE-EMPT	
BACKPANEL 12-POSITION-TS1	VIDEO SYSTEM TYPE			Ī
			PRE-EMPT INFORMATION	
D PLUG				
NEM.	A LOAD SWITCH ASSIGNMENTS			
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# OF STANDARD	2-CHANNEL DETECTOR: 4			
# OF DELAY/EX	T 2-CHANNEL DETECTOR 1			
	CARD	RACK CONFIGURA	ITION	
	FILL IN POSITIONS NEE	DED WITH ASSOCI	ATED PHASE NUMBER	
1-CH	1 2-CH1 3-CH1 4-0	CH1 5-CH1 3	6-CH1 7-CH1	8-CH1 0
		<u> </u>		8-CH2
1-CH	2 2-GH2 3-GH2 4-6 0 2 2 2	CH2 5-CH2 0 3	6-GH2 7-GH2	0
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DELAY/EXTEND				
VIDEO V DE		DET 4 V DET 5	V DET 6 V DET 7	V DET 8
NIDEO J				
OTHER INFORMATION OF	R SPECIAL REQUIREMENTS:			
Wire LS 9-10 as OLA-B. W	/ire LS 11-12 as Ped 2, 3.			
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6 - ST. LOUIS	COUNTY	DESIGNATION TRAVELWAY	CROSS STREET	LOG MILE
	ST. CHARLE	ES MO 94	6th Street	112:122
HIP TO:			1	
NEIL SCHLICHTING	2	2309 A BARRETT STATION ROAD	BALLWIN, MO	63021
ONTROLLER	di antara	CONTROLLER TYPE	CABINET TYPE	
S2/Type2		ACTUATED	NEMA/PT STANDARD EV	l de la company
YSTEM MASTER		DETECTION TYPE	CABINET DESCRIPTION	100
		Property of the second		
NTERCONNECT TYPE	ucacan.	VIDEO SYSTEM INTERFACE		
			PRE-EMPT	
BACKPANEL		VIDEO SYSTEM TYPE	105-500	
16-POSITION-TS1			PRE-EMPT INFORMATION	
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Application of the second of t				
	NEMA LO	OAD SWITCH ASSIGNMENTS	Randa da la participa de la companya de la company La companya da la co	
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1 2 0	4 5	6 0 8 2 4	6 8	
	CTANDADD 3			
	STANDARD 2-1	CHANNEL DETECTOR 0		
NFMA				
NEMA #oi	- DELAY/EXT 2-	-CHANNEL DETECTOR 0	al Table	
	F DELAY/EXT 2-	-CHANNEL DETECTOR: 0		
	F DELAY/EXT 2-	CARD RACK CONFIGUR		The second secon
	F DELAYIEXT 2-			
	F DELAY/EXT 2-	CARD RACK CONFIGUR		8-CH1
	and the second s	CARD RACK CONFIGURE FILL IN POSITIONS NEEDED WITH ASSOCIATIONS NEEDED WITH ASSOCIATION NEEDED WITH WITH MED WITH WITH WITH WITH WITH WITH WITH WITH	CIATED PHASE NUMBER 6-CH1 7-CH1	8-CH1 0
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	1-CH1 0 1-CH2 0	CARD RACK CONFIGURE	6-CH2 7-CH2 DET DET	8-CH2 0 DET
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	COUNTY ST. CHARLES	DESIGNATION TRAVELWAY MO 94	CROSS STREET	LOG MILE
SHIP TO: NEIL SCHLICHTING	23	09 A BARRETT STATION ROAD	BALLWIN, MO	112368 63021
CONTROLLER TS2/Type2 SYSTEM MASTER		CONTROLLER TYPE ACTUATED DETECTION TYPE	CABINET TYPE NEMA/PT STANDARD EV CABINET DESCRIPTION	
INTERCONNECT TYPE 7-WIRE LOCAL		INDUCTION VIDEO SYSTEM INTERFACE VIDEO SYSTEM TYPE	PRE-EMPT	
BACKPANEL 12-POSITION-TS1			PRE-EMPT INFORMATION	
D'PLUG				
1 2 3 4 1 1 2 3 0	5	AD SWITCH ASSIGNMENTS 6 7 8 9 10 11 6 0 0 0 0 0 0	12 DEXCLUSIVE	PED PHASE
NEMA		HANNEL DETECTOR 1	ATION	
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DELAY/EXTEND	DET	DET DET DET VDET 2 VDET 3 VDET 4 VDET 5	DET DET	DET
The state of the s	☐	CIAL REQUIREMENTS:		
Wire LS 9 as OLA	. Wire LS 10-1	2 as Ped 2, 3, 6.		
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PTO:	PTO:	STRICT ST. LOUIS	COUNTY ST. CHARLES	DESIGNATION MO	TRAVELWAY	CROSS STREET 5th Street	LOG MILE -34.50800
CONTROLLER CONTROLLER TYPE CABINET DESCRIPTION	1						112,654
CONTROLLER TYPE GABINET TYPE	NEMALOAD SWITCH ASSIGNMENTS PRE-EMPT INFORMATION	IP TO:	[2309 Δ B	ARRETT STATION ROAD		BALLWIN, MO	63021
NEMA LOAD SWITCH ASSIGNMENTS PRE-EMPT PRE-EMPT	ACTUATED NEMAPT STANDARD EV						- Institution
DETECTION TYPE CABINET DESCRIPTION	# OF STANDARD 2-CHANNEL DETECTOR	NTROLLER		The second secon			
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VIDEO SYSTEM TYPE	VIDEO SYSTEM TYPE PRE-EMPT	ERCONNECT TYPE	As The state of the Control of Section 1997				
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DELAY/EXTEND DET D	DELAY/EXTEND DET D		1	0 0	0 3	0 0	0
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OTHER INFORMATION OR SPECIAL REQUIREMENTS: Wire LS 9 as OLA: Wire LS 10-12 as Ped 2, 3, 6.	OTHER INFORMATION OR SPECIAL REQUIREMENTS: Wire LS 9 as OLA. Wire LS 10-12 as Ped 2, 3, 6.	WDEO	V DET V I	DET 2 V DET 3 V D	DET 4 V DET 5	V DET 6 V DET 7	V DET 8
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Wire LS 9 as OLA. Wire LS 10-12 as Ped 2, 3, 6.	Wire LS 9 as OLA. Wire LS 10-12 as Ped 2, 3, 6.						
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	Add a New Record Close File	Go To Novt Boo		o to Provious Pacerd	Add a No	ay Pecord	sa Fila

LOUIC	COUNTY	DESIGNATION TRAVELWAY	CROSS STREET Parker	2,8600
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O:				
CHLICHTING		09 A BARRETT STATION ROAD	BALLWIN, MO	63021
ROLLER		CONTROLLER TYPE	CABINET TYPE	
/pe2		ACTUATED	NEMA/PT STANDARD EV	
M MASTER		DETECTION TYPE	CABINET DESCRIPTION	
		INDUCTION		
CONNECT TYPE		VIDEO SYSTEM INTERFACE		
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PANEL		VIDEO SYSTEM TYPE	PRE-EMPT	
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	STANDARD 2-C	HANNEL DETECTOR 6		
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NEMA		CARD RACK CONFIGUR FILL IN POSITIONS NEEDED WITH ASSOC	DIATED PHASE NUMBER 6-CH1 7-CH1	8-CH1
NEMA	F DELAY/EXT 2-C	CARD RACK CONFIGUR FILL IN POSITIONS NEEDED WITH ASSOC	DIATED PHASE NUMBER 6-CH1 7-CH1	8-CH1
NEMA	F DELAY/EXT 2-C	CARD RACK CONFIGUR FILL IN POSITIONS NEEDED WITH ASSOC	DIATED PHASE NUMBER 6-CH1 7-CH1	8-CH1 8-CH2
NEMA	F DELAY/EXT 2-0	CARD RACK CONFIGUR FILL IN POSITIONS NEEDED WITH ASSOC 2-CH1 3-CH1 4-CH1 5-CH1 6 6 6 6 3	6-CH1 7-CH1 0 6-CH2 7-CH2	
NEMA	1-CH1 1-CH2 1-CH2	CARD RACK CONFIGUR FILL IN POSITIONS NEEDED WITH ASSOC 2-CH1 3-CH1 4-CH1 5-CH1 6 6 6 6 3 2-CH2 3-CH2 4-CH2 5-CH2 2 2 7	6-CH1 7-CH1 0 6-CH2 7-CH2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8-GH2 01
NEMA	1-CH1 1-CH2 1 5	CARD RACK CONFIGUR FILL IN POSITIONS NEEDED WITH ASSOC 2-CH1 3-CH1 4-CH1 5-CH1 6 6 6 6 3 2-CH2 3-CH2 4-CH2 5-CH2 2 7 DET DET DET DET	6-CH1 7-CH1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8-CH2
NEMA #O	T-CH1 1-CH2 5	CARD RACK CONFIGUR FILL IN POSITIONS NEEDED WITH ASSOC 2-CH1 3-CH1 4-CH1 5-CH1 6 6 6 6 3 2-CH2 3-CH2 4-CH2 5-CH2 2 2 7	6-CH1 7-CH1 0 6-CH2 7-CH2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8-GH2 01
NEMA #0	1-CH1 1-CH2 1 5	CARD RACK CONFIGUR FILL IN POSITIONS NEEDED WITH ASSOC 2-CH1 3-CH1 4-CH1 5-CH1 6 6 6 6 3 2-CH2 3-CH2 4-CH2 5-CH2 2 7 DET DET DET DET	6-CH1 7-CH1 0 6-CH2 7-CH2 0 DET DET	8-GH2 01
NEMA #O	TOELAY/EXT 2-C	CARD RACK CONFIGUR FILL IN POSITIONS NEEDED WITH ASSOC 2-CH1	6-CH1 7-CH1 0 6-CH2 7-CH2 0 DET DET	8-CH2 0
NEMA #0	T-CH1 1-CH2 5 DET V DET	CARD RACK CONFIGUR FILL IN POSITIONS NEEDED WITH ASSOC 2-CH1	6-CH1 7-CH1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8-GH2 0 DET
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NEMA TS1/TS2 Traffic Signal Controller Order Form CROSS STREET LOG MILE TRAVELWAY COUNTY DESIGNATION DISTRICT 6 - ST. LOUIS 15.10000 ST. LOUIS CITY RT Tucker SHIP TO: 2309 A BARRETT STATION ROAD BALLWIN, MO 63021 NEIL SCHLICHTING CABINET TYPE CONTROLLER CONTROLLER TYPE OTHER (AS SPECIFIED) ACTUATED TS2/Type2 CABINET DESCRIPTION **DETECTION TYPE** SYSTEM MASTER CBD PEDISTAL MOUNT CABINET (EAGLE PART #EL 762 OR EQUIVILANT) INTERCONNECT TYPE VIDEO SYSTEM INTERFACE 7-WIRE LOCAL PRE-EMPT **VIDEO SYSTEM TYPE** BACKPANEL 8-POSITION-TS1 PRE-EMPT INFORMATION D PLUG **NEMA LOAD SWITCH ASSIGNMENTS** EXCLUSIVE PED PHASE # OF STANDARD 2-CHANNEL DETECTOR NEMA 0 # OF DELAY/EXT 2-CHANNEL DETECTOR CARD RACK CONFIGURATION FILL IN POSITIONS NEEDED WITH ASSOCIATED PHASE NUMBER 7-CH1 8-CH1 1-CH1 2-CH1 3-CH1 4-CH1 5-CH1 6-CH1 0 7-CH2 8-CH2 2-CH2 3-CH2 4-CH2 6-CH2 1-CH2 5-CH2 DET DET DET DET DET DET DET DET **DELAY/EXTEND** V DET 8 V DET 5 V DET 6 V DET 7 V DET V DET 2 V DET 3 V DET 4 **VIDEO** OTHER INFORMATION OR SPECIAL REQUIREMENTS: Wire LS 5-8 for Ped 1, 2, 3, 4 11+ Close File Go To Next Record Go to Previous Record Add a New Record

NEMA TS1/TS2 Traffic Signal Controller Order Form DESIGNATION CROSS STREET DISTRICT COUNTY TRAVELWAY ST. LOUIS CITY Hodiamont 6 - ST. LOUIS 9.453 SHIP TO: BALLWIN, MO 63021 NEIL SCHLICHTING 2309 A BARRETT STATION ROAD **CABINET TYPE** CONTROLLER **CONTROLLER TYPE** OTHER (AS SPECIFIED) TS2/Type2 ACTUATED CABINET DESCRIPTION SYSTEM MASTER **DETECTION TYPE CBD D-CABINET** INTERCONNECT TYPE VIDEO SYSTEM INTERFACE 7-WIRE LOCAL PRE-EMPT VIDEO SYSTEM TYPE **BACKPANEL** 8-POSITION-TS1 PRE-EMPT INFORMATION D PLUG **NEMA LOAD SWITCH ASSIGNMENTS EXCLUSIVE PED PHASE** # OF STANDARD 2-CHANNEL DETECTOR NEMA # OF DELAY/EXT 2-CHANNEL DETECTOR **CARD RACK CONFIGURATION** FILL IN POSITIONS NEEDED WITH ASSOCIATED PHASE NUMBER 5-CH1 6-CH1 7-CH1 8-CH1 1-CH1 2-CH1 3-CH1 4-CH1 0 0 1-CH2 2-CH2 3-CH2 5-CH2 6-CH2 7-CH2 8-CH2 0 DET DET DET DET DET DET DET DET **DELAY/EXTEND** V DET 6 V DFT 7 V DET 8 V DET V DET 2 V DET 3 V DET 4 V DET 5 **VIDEO** OTHER INFORMATION OR SPECIAL REQUIREMENTS: Wire LS 7-8 for Ped 2, 4.

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NEMA TS1/TS2 Traffic Signal Controller Order Form CROSS STREET LOG MILE COUNTY DESIGNATION TRAVELWAY DISTRICT 11.99000 ST. LOUIS CITY RT Newstead 6 - ST. LOUIS SHIP TO: 63021 **NEIL SCHLICHTING** 2309 A BARRETT STATION ROAD BALLWIN, MO CONTROLLER TYPE **CABINET TYPE** CONTROLLER OTHER (AS SPECIFIED) ACTUATED TS2/Type2 CABINET DESCRIPTION SYSTEM MASTER **DETECTION TYPE** CBD PEDISTAL MOUNT CABINET. (EAGLE PART #EL 762 OR EQUIVILANT) INTERCONNECT TYPE VIDEO SYSTEM INTERFACE 7-WIRE LOCAL PRE-EMPT **VIDEO SYSTEM TYPE** BACKPANEL 8-POSITION-TS1 PRE-EMPT INFORMATION D PLUG **NEMA LOAD SWITCH ASSIGNMENTS** 8 9 10 11 12 EXCLUSIVE PED PHASE # OF STANDARD 2-CHANNEL DETECTOR **NEMA** # OF DELAY/EXT 2-CHANNEL DETECTOR 0 **CARD RACK CONFIGURATION** FILL IN POSITIONS NEEDED WITH ASSOCIATED PHASE NUMBER 1-CH1 5-CH1 6-CH1 7-CH1 8-CH1 2-CH1 4-CH1 0 2-CH2 3-CH2 4-CH2 5-CH2 6-CH2 7-CH2 8-CH2 1-CH2 0 0 0 DET DET DET DET DET DET DET DET **DELAY/EXTEND**] | V DET 5 V DET 6 V DET 7 V DET 8 V DET V DET 2 V DET 3 V DET 4 **VIDEO** OTHER INFORMATION OR SPECIAL REQUIREMENTS: Wire LS 5-8 for Ped 1, 2, 3, 4 1 Close File Go To Next Record Go to Previous Record Add a New Record

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6 - ST. LOUIS	COUNTY	DESIGNATION	TRAVELWAY	CROSS STREET	LOG MILE
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NEMA TS1/TS2 Traffic Signal Controller Order Form CROSS STREET LOG MILE DISTRICT COUNTY DESIGNATION **TRAVELWAY** 6 - ST. LOUIS Hamilton 9.63000 ST. LOUIS CITY D SHIP TO: BALLWIN, MO 63021 NEIL SCHLICHTING 2309 A BARRETT STATION ROAD CONTROLLER **CABINET TYPE CONTROLLER TYPE** ACTUATED OTHER (AS SPECIFIED) TS2/Type2 CABINET DESCRIPTION SYSTEM MASTER **DETECTION TYPE** CBD PEDISTAL MOUNT CABINET (EAGLE PART #EL 762 OR EQUIVILANT) INTERCONNECT TYPE VIDEO SYSTEM INTERFACE 7-WIRE LOCAL PRE-EMPT **VIDEO SYSTEM TYPE BACKPANEL** 8-POSITION-TS1 PRE-EMPT INFORMATION D PLUG **NEMA LOAD SWITCH ASSIGNMENTS EXCLUSIVE PED PHASE # OF STANDARD 2-CHANNEL DETECTOR** NEMA 0 # OF DELAY/EXT 2-CHANNEL DETECTOR CARD RACK CONFIGURATION FILL IN POSITIONS NEEDED WITH ASSOCIATED PHASE NUMBER 1-CH1 2-CH1 3-CH1 4-CH1 5-CH1 6-CH1 7-CH1 8-CH1 0 0 0 1-CH2 2-CH2 3-CH2 4-CH2 5-CH2 6-CH2 7-CH2 8-CH2 DET DET DET DET DET DET DET DET **DELAY/EXTEND** V DET V DET 2 V DET 3 V DET 4 V DET 5 V DET 6 V DET 7 V DET 8 **VIDEO** OTHER INFORMATION OR SPECIAL REQUIREMENTS: Wire LS 5-8 for Ped 1, 2, 3, 4.

OTHER INFORMATION OR SPECIAL REQUIREMENTS:

Wire LS 5-8 for Ped 1, 2, 3, 4.

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NOTICE

Missouri Highway and Transportation (MoDOT) is interested in assisting Missouri governmental entities, etc. in purchasing equipment, various materials and supplies that meet the MoDOT specifications.

Each bidder is asked to indicate below whether they would be willing to offer **Traffic Signal Controllers Assemblies** listed in the attached "Request for Bid" for sale to these local political entities at the same bid price offered to MoDOT

It is understood that MoDOT will not issue purchase orders, accept delivery nor make payment for these items ordered by any of these agencies. It is further understood the price is based on the **Traffic Signal Controllers Assemblies** meeting MoDOT specifications.

Any added options, deletions, or extra freight costs would be negotiated between the local agency and the successful vendor.

Indicate below whether your company is willing to offer such cooperative purchasing for Missouri counties, cities or other political entities.

YES	NO
If the price varies throughout the state on Depart destinations, please indicate the price f.o.b. yo described.	
F.O.B. Location	
Indicate the deadline date that orders will be accept	ed
COMPANY NAME	·
ADDRESS	· · · · · · · · · · · · · · · · · · ·
PHONE NUMBER	
SIGNATURE	
TITLE	
DATE	
(Each vendor should complete the appropriate sect bid.)	ions of their form and submit with their

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PREFERENCE IN PURCHASING PRODUCTS

DATE:	·.			
			RSMo 2000 which give g contracts or purchasing	-
Bids/Qu	otations received wil	I be evaluated on the	basis of this legislation.	
All vend	lors submitting a bi	d/quotation must fu	rnish <u>ALL</u> information	requested below.
in de la F	OR CORPORATION	ONS:		$\widehat{\mathcal{C}}_{i,j} = \widehat{\mathcal{C}}_{i,j} + \widehat{\mathcal{A}}_{i,j} + \widehat{\mathcal{A}}_{i,j} + \widehat{\mathcal{A}}_{i,j}$
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· I	OR ALL VENDO	RS:		
	List address o	f Missouri offices or	places of business:	
FIRM NAME: ADDRESS:			PLETED AND SIGNED:	
CITY:			STATE:	ZIP:
BY (signature				
Federal Tax I.I). #:	if no Federal Ta	x I.D. # - list Social Sec	urity #:

NOTE: For bid/quotation to be considered, the "Preference in Purchasing Products" form must be on file in the General Services (Procurement) Division and must be dated in the current calendar year.

MISSOURI DOMESTIC PRODUCTS PROCUREMENT ACT

The bidder's attention is directed to the Missouri Domestic Products Procurement Act, Sections 34.350 to 34/359, RsMO, which requires all manufactured goods or commodities used or supplied in the performance of this contract or any subcontract to be manufactured or produced in the United States.

Section 34.355, RsMO, requires the vendor or contractor to certify his compliance with Section 34.353 and, if applicable, Section 34.359, RsMO, at the time of bidding **and** prior to payment. Failure to comply with Section 34.353, RsMO, during the performance of the contract **and** to provide certification of compliance prior to payment will result in nonpayment for those goods or commodities.

Section 34.353.2, RsMO, specifies that it does not apply where the total contract is less than Twenty-Five Thousand Dollars (\$25,000.00). If your total bid is Twenty-Five Thousand Dollars (\$25,000.00) or more, you **must** complete this form as directed below.

Failure to complete and return this document with this bid will cause the State to presume the manufactured goods or products listed in the bid are not manufactured or produced in the United States, and the bid will be evaluated on that basis. Please read the certification appearing below on this form.

[]	If all the goods or products specified in the attached bid which the bidder proposes to supply to the State shall be manufactured or produced in the "United States" as defined in Section 34.350, RsMO, check the box at left.					
[]	If only one item of any particular goods or products specified in the attached bid is manufactured or produced in the "United States" as defined in Section 34.350, RsMO, check the box at left and list the items (or item number) here:					
	1	If any or all of the goods or products specified in the attached bid which the bidder proposes to supply to the State are not manufactured or produced in the "United States" as defined in Section 34.350, RsMO, then: (a) check the box at left; (b) list below, by item (or item number), the country other than the United States where each good or product is manufactured or produced; and (c) check the boxes to the left of the paragraphs below if applicable and list the corresponding items (or item numbers) in the spaces provided.					
It	em (e	or item number)	Location Where Item Manufactured or Produced				
			(attach an additional sheet if necessary)				
[]	The following specified goods or products cannot be manufactured or produced in the United States in sufficient quantities or in time to me the contract specifications. Items (or item numbers):					
]	The following specified goods or products must be treated as manufactured or produced in the United States, in accordance with an existing treaty, law, agreement, or regulation of the United States, including a treaty between the United States and any foreign country regarding export-import restrictions or international trade. Items (or item numbers):					

CERTIFICATION

By submitting this document, completed as directed above, with a bid, the bidder certifies under penalty of making false declaration (Section 575.060, RsMO) that the information contained in this document if true, correct and complete, and may be relied upon by the State in determining the bidders qualifications under and in compliance with the Missouri Domestic Products Procurement Act.

The bidder's failure to complete and return this document with the bid as directed above will cause the State to presume the manufactured goods or products listed in the bid are not manufactured or produced in the United States, and the bid will be evaluated on that basis pursuant to Section 34.353.3(2), RsMO.

STANDARD SOLICITATION PROVISIONS

- a. The Missouri Department of Transportation (MoDOT) reserves the right to reject any or all bids/quotes/proposals, and to accept or reject any items thereon, and to waive technicalities. In case of error in the extension of prices in the bid/quote/proposal, unit prices will govern.
- All bids/quotes/proposals must be signed with the firm name and by a responsible officer or employee.
 Obligations assumed by such signature must be fulfilled.
- c. By virtue of statutory authority, a preference will be given to materials, products, supplies, provisions and all other articles produced, manufactured, made or grown, within the State of Missouri.
- d. Time of delivery is a part of the consideration and, if not otherwise stated in the solicitation documents, must be stated in definite terms by the Bidder/Offeror and must be adhered to. If time varies on different items, the Bidder/Offeror shall so state.
- e. If providing bids/quotes/proposals for commodities, the Bidder/Offeror will state brand or make on each item. If bidding or proposing other than the make, model or brand specified, the manufacturer's name, model number or catalog number must be given.
- f. For bids/proposals of \$25,000 or more, no bids/proposals by telephone, telegram or telefax will be accepted. If provided, these bids/proposals should be returned in the MoDOT solicitation return envelope.
- g. If a solicitation return envelope is provided by MoDOT, the bid/quote/proposal should be returned in the envelope provided with the Bid/RFQ/RFP Request Number plainly indicated thereon.
- h. The date specified for the returning of bids/quotes/proposals is a firm deadline and all bids/quotes/proposals must be received at the designated office by that time. The Department does not recognize the U.S. Mail, Railway Express Agency, Air Express, or any other organization, as its agent for purposes of accepting proposals. All proposals arriving at the designated office after the deadline specified will be rejected.

GENERAL TERMS AND CONDITIONS

General Performance

a. This work is to be performed under the general supervision and direction of the Missouri Department of Transportation (MoDOT) and, if awarded any portion of the work, the Contractor agrees to furnish at his own expense all labor and equipment required to complete the work, it being expressly understood that this solicitation is for completed work based upon the price(s) specified and is not a solicitation for rental of equipment or employment of labor by MoDOT, and MoDOT is to have no direction or control over the employees used by the Contractor in performance of the work.

Deliveries

- a. Unless otherwise specified on the solicitation documents or purchase order, suppliers shall give at least 24 hours advance notice of each delivery. Delivery will only be received between the hours of 8:00 a.m. to 3:00 p.m., Monday through Friday. Material arriving after 3:00 p.m. will not be unloaded until the following workday. No material will be received on Saturday, Sunday or state holidays.
- b. If the prices bid herein include the delivery cost of the material, the Contractor agrees to pay all transportation charges on the material as FOB - Destination. Freight costs must be included in the unit price bid and not listed as a separate line item.
- c. Any demurrage is to be paid by the Contractor direct to the railroad or carrier.

Nondiscrimination

- a. The Contractor shall comply with the Regulations relative to nondiscrimination in federally-assisted programs of the Department of Transportation, Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.
- b. All solicitations either by competitive bidding or negotiation made by the Contractor for work to be performed under a subcontract, including procurements of materials or leases of the Contractor's obligations under this contract and the Regulations, will be relative to nondiscrimination on the grounds of race, color, or national origin.
 - 1) Sanctions for Noncompliance: In the event of the Contractor's noncompliance with the nondiscrimination provisions of this contract, MoDOT shall impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to:
 - i. withholding of payments to the Contractor under the contract until the Contractor complies, and/or,
 - ii. cancellation, termination or suspension of the contract, in whole or in part.

Contract/Purchase Order

a. By submitting a bid/quote/proposal, the Bidder/Offeror agrees to furnish any and all equipment, supplies and/or services specified in the solicitation documents, at the prices quoted, pursuant to all requirements and specifications contained therein.

Page 1 of 4 Accepted: 9/29/03 Updated: 3/7/06

- b. A binding contract shall consist of: (1) the solicitation documents, amendments thereto, and/or Best and Final Offer (BAFO) request(s) with any changes/additions, (2) the Contractor's proposal and/or submitted pricing, and (3) the MHTC's acceptance of the proposal and/or bid by purchase order or post –award contract.
- c. A notice of award does not constitute an authorization for shipment of equipment or supplies or a directive to proceed with services. Before providing equipment, supplies and/or services, the Contractor must receive a properly authorized purchase order and/or notice to proceed.
- d. The contract expresses the complete agreement of the parties and performance shall be governed solely by the specifications and requirements contained therein. Any change, whether by modification and/or supplementation, must be accomplished by a formal contract amendment signed and approved by and between the duly authorized representative of the Contractor and the duly authorized representative of the MHTC, by a modified purchase order prior to the effective date of such modification. The Contractor expressly and explicitly understands and agrees that no other method and/or no other document, including correspondence, acts, and oral communications by or from any person, shall be used or construed as an amendment or modification.

Subcontracting

- a. It is specifically understood that no portion of the material or any interest in the contract, shall be subcontracted, transferred, assigned or otherwise disposed of, except with the written consent of MoDOT. Request for permission to subcontract or otherwise dispose of any part of the work shall be in writing to MoDOT and accompanied by documentation showing that the organization which will perform the work is particularly experienced and equipped for such work.
- b. Consent to subcontract or otherwise dispose of any portion of the work shall not be construed to relieve the Contractor of any responsibility for the production and delivery of the contracted work and the completion of the work within the specified time.
- c. All payments for work performed by a subcontractor shall be made to the Contractor to whom the contract was awarded and the purchase order issued.

Invoicing and Payment

- a. MoDOT is exempt from paying Missouri Sales Tax, Missouri Use Tax and Federal Excise Tax. However, the Contractor may themselves be responsible for the payment of taxes on materials they purchase to fulfill the contract. A Federal Excise Tax Exemption Certificate will be furnished to the successful Bidder/Offeror upon request.
- b. Each invoice should be itemized in accordance with items listed on the purchase order and/or contract. The statewide financial management system has been designed to capture certain receipt and payment information. Therefore, each invoice submitted must reference the purchase order number and must be itemized in accordance with items listed on the purchase order. Failure to comply with this requirement may delay processing of invoices for payment.
- c. Unless otherwise provided for in the solicitation documents, payment for all equipment, supplies, and/or services required herein shall be made in arrears. The Missouri Highways and Transportation Commission (MHTC) shall not make any advance deposits.
- d. The MHTC assumes no obligation for equipment, supplies, and/or services shipped or provided in excess of the quantity ordered. Any authorized quantity is subject to the MHTC's rejection and shall be returned at the Contractor's expense.
- e. The MHTC reserves the right to purchase goods and services using the state-purchasing card.

Applicable Laws and Regulations

- The contract shall be construed according to the laws of the State of Missouri. The Contractor shall comply with all local, state, and federal laws and regulations related to the performance of the contract.
- b. The Contractor must be registered and maintain good standing with the Secretary of State of the State of Missouri and other regulatory agencies, as may be required by law or regulations. Prior to the issuance of a purchase order and/or notice to proceed, the Contractor may be required to submit to MoDOT a copy of their current Authority Certificate from the Secretary of State of the State of Missouri.
 - 1) Prior to the issuance of a purchase order and/or notice to proceed, all out-of-state Contractors <u>providing services</u> within the state of Missouri must submit to MoDOT a copy of their current Transient Employer Certificate from the Department of Revenue, in addition to a copy of their current Authority Certificate from the Secretary of State of the State of Missouri.
- c. The exclusive venue for any legal proceeding relating to or arising, out of the contract shall be in the Circuit Court of Cole County, Missouri.

Preferences

In the evaluation of bids/quotes/proposals, preferences shall be applied in accordance with Chapter 34 RSMo.
 Contractors should apply the same preferences in selecting subcontractors.

Page 2 of 4 Accepted: 9/29/03 Updated: 3/7/06

- b. By virtue of statutory authority, RSMo. 34.076 and 34.350 to 34.359, a preference will be given to materials, products, supplies, provisions and all other articles produced, manufactured, made or grown within the State of Missouri. Such preference shall be given when quality is equal or better and delivered price is the same or less.
 - 1) If attached, the document entitled "PREFERENCE IN PURCHASING PRODUCTS" should be completed and returned with the solicitation documents.
 - 2) If attached, the document entitled "MISSOURI DOMESTIC PRODUCTS PROCUREMENT ACT" should be completed and returned with the solicitation documents. Applies if bid is Twenty-Five Thousand Dollars (\$25,000.00) or more.
- c. In the event of a tie of low bids, the MHTC reserves the right to establish the method to be used in determining the award

Remedies and Rights

- a. No provision in the contract shall be construed, expressly or implied, as a waiver by the MHTC of any existing or future right and/or remedy available by law in the event of any claim by the MHTC of the Contractor's default or breach of contract.
- b. The Contractor agrees and understands that the contract shall constitute an assignment by the Contractor to the MHTC of all rights, title and interest in and to all causes of action that the Contractor may have under the antitrust laws of the United States or State of Missouri for which causes of action have accrued or will accrue as the result of or in relation to the particular equipment, supplies, and/or services purchased or produced by the Contractor in the fulfillment of the contract with the MHTC.
 - c. In the event a Contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the Contractor may request MoDOT to enter into such litigation to protect the interests of the MHTC, and, in addition, the Contractor may request the United States to enter into such litigation to protect the interests of the United States.

Cancellation of Contract

- a. The MHTC may cancel the contract at any time for a material breach of contractual obligations or for convenience by providing the Contractor with written notice of cancellation. Should the MHTC exercise its right to cancel the contract for such reasons, cancellation will become effective upon the date specified in the notice of cancellation sent to the Contractor.
- b. If the MHTC cancels the contract for breach, the MHTC reserves the right to obtain the equipment, supplies, and/or services to be provided pursuant to the contract from other sources and upon such terms and in such manner as the MHTC deems appropriate and charge the Contractor for any additional costs incurred thereby.

Bankruptcy or Insolvency

a. Upon filing for any bankruptcy or insolvency proceeding by or against the Contractor, whether voluntary or involuntary, or upon the appointment of a receiver, trustee, or assigned the benefit or creditors, the Contractor must notify MoDOT immediately. Upon learning of any such actions, the MHTC reserves the right, at its sole discretion, to either cancel the contract or affirm the contract and hold the Contractor responsible for damages.

Inventions, Patents, and Copyrights

a. The Contractor shall defend, protect, and hold harmless the MHTC, its officers, agents, and employees against all suits of law or in equity resulting from patent and copyright infringement concerning the Contractor's performance or products produced under the terms of the contract.

Inspection and Acceptance

- a. No equipment, supplies, and/or services received by MoDOT pursuant to a contract shall be deemed accepted until MoDOT has had reasonable opportunity to inspect said equipment, supplies, and/or services.
- b. All equipment, supplies, and/or services which do not comply with the specifications and/or requirements or which are otherwise unacceptable or defective may be rejected. In addition, all equipment, supplies, and/or services which are discovered to be defective or which do not conform to any warranty of the Contractor upon inspection (or at any later time if the defects contained were not reasonably ascertainable upon the initial inspection) may be rejected.
- c. The MHTC reserves the right to return any such rejected shipment at the Contractor's expense for full credit or replacement and to specify a reasonable date by which replacements must be received.
- d. The MHTC's right to reject any unacceptable equipment, supplies, and/or services shall not exclude any other legal, equitable or contractual remedies the MHTC may have.

Warranty

- a. The Contractor expressly warrants that all equipment, supplies, and/or services provided shall: (1) conform to each and every specification, drawing, sample or other description which was furnished to or adopted by MoDOT, (2) be fit and sufficient for the purpose expressed in the solicitation documents, (3) be merchantable, (4) be of good materials and workmanship, and (5) be free from defect.
- b. Such warranty shall survive delivery and shall not be deemed waived either by reason of the MHTC's acceptance of or payment for said equipment, supplies, and/or services.

Page 3 of 4 Accepted: 9/29/03 Updated: 3/7/06

Status of Independent Contractor

a. The Contractor represents itself to be an independent Contractor offering such services to the general public and shall not represent itself or its employees to be an employee of the MHTC. Therefore, the Contractor shall assume all legal and financial responsibility for taxes, FICA, employee fringe benefits, workers' compensation, employee insurance, minimum wage requirements, overtime, etc., and agrees to indemnify, save and hold the MHTC, its officers, agents and employees harmless from and against any and all losses (including attorney fees) and damage of any kind related to such matters.

Indemnification

- a. The Contractor shall be responsible for injury or damages as a result of any services and/or goods rendered under the terms and conditions of this Agreement.
- b. In addition to the liability imposed upon the Contractor on the account of personal injury, bodily injury, including death, or property damage, suffered as a result of the Contractor's performance under this Agreement, the Contractor assumes the obligation to save harmless the Commission, including its agents, employees and assigns, and to indemnify the Commission, including its agents, employees and assigns, from every expense, liability or payment arising out of such wrongful or negligent act or omission, including legal fees.
- c. The Contractor also agrees to hold harmless the Commission, including its agents, employees and assigns, from any wrongful or negligent act or omission committed by any subcontractor or other person employed by or under the supervision of the Contractor for any purpose under this Agreement, and to indemnify the Commission, including its agents, employees and assigns, from every expense, liability or payment arising out of such wrongful or negligent act or omission.

Page 4 of 4 Accepted: 9/29/03 Updated: 3/7/06